



# Project & Products

Vision Future Technology

The logo for Vision Future Technology (VFT) is centered within a white rectangular box. It features the text "VISION FUTURE TECHNOLOGY" in a small, dark blue, sans-serif font. Below this, the letters "VFT" are written in a large, bold, dark blue, sans-serif font. A light blue swoosh underline is positioned beneath the "VFT" text. The entire logo is set against a dark blue, abstract, multi-pointed background shape that has a lighter blue shadow behind it.

VISION FUTURE TECHNOLOGY

**VFT**

# About Company

Vision Future Technology (VFT) specializes in designing and implementing advanced software solutions and AI-powered platforms. Our team of experts in software development, artificial intelligence, and data analytics helps organizations and healthcare centers automate processes, optimize workflows, and make data-driven decisions through intelligent applications, AI chatbots, and custom software solutions.

In addition, VFT provides intelligent building solutions, IoT systems, and building automation (BMS) services. Our electrical engineering and smart systems team focuses on energy efficiency, safety, security monitoring, and creating fully automated and intelligent environments for organizations and facilities.

# Early Alzheimer's detection system using deep learning

**Problem:** Early detection of Alzheimer's is difficult; MRI images are bulky, heterogeneous, and noisy (extra features such as skull and face), complicating processing.

**Solution:** Using "ensemble of convolutional autoencoders" to extract accurate 3D features from MRI.

## Method

- Select 11 representative patterns from the database with AP clustering
- Registration of images with these patterns
- Train 11 Autoencoders and combine features
- Final detection with CNN

## Output

Very high accuracy in three key scenarios

- AD vs Normal: 95%
- AD vs MCI: 90%
- MCI vs Normal: 92.5%

## Value Proposition

- Improved early diagnosis
- Reduced human error
- Automatic feature extraction without the need for specialized medical skills
- Usability in CAD/clinical diagnostics systems

Services provided by VFT in the field of health and treatment

# Development of Bioinformatics-based Medical Tools

- ◆ Creating computational tools for analyzing biological and medical data for diagnosis, prediction, and intelligent decision-making in health.

## Application Areas

- Genome Analysis and Sequencing (DNA/RNA) for Genetic Disease Diagnosis
- Protein Modeling and Mutation Screening
- Identification of Disease Biomarkers for Early Diagnosis
- Drug Design and Drug Interaction Prediction

## Technologies and Techniques

- Medical Big Data Processing
- ML and DL for Classification, Prediction and Optimization
- Alignment, Structural Prediction and Network Analysis
- Using Biological Databases such as NCBI, UniProt, PDB

## Outputs and Tools

- Genetic Analysis Dashboards
- Disease-Causing Mutation Prediction Systems
- Personalized Diagnostics Tools

## Value Proposition

- More Accurate and Faster Diagnosis
- Reducing Laboratory Costs
- Physician Decision Support
- Precision Medicine Capabilities

Services provided by VFT in the field of health and treatment

## Implementation of the Medavato platform (ordered by Medavajoyan Company)

- ◆ Creating an intelligent platform for managing treatment processes and health monitoring based on data and artificial intelligence.

### Capabilities

- Digital health record and patient record management
- Artificial intelligence for disease trend analysis, alerting and treatment recommendations
- Doctors' dashboard: patient management, reporting, treatment tracking
- Patient application: appointment scheduling, symptom monitoring, treatment plan

### Technologies

- Microservice architecture, API-first, secure authentication
- Artificial intelligence for medical data and signal analysis
- Integration with health systems and monitoring devices

### Value Proposition

- Reduce human error, speed up clinical decision-making
- Integrate treatment pathway and reduce costs
- Intelligent patient and physician assistant
- Add diagnostic modules (e.g. Alzheimer's, heart, diabetes)

# AI chatbot using data and local knowledge

- ◆ Providing an intelligent assistant for accurate, localized, and reliable responses in local specialized areas (legal, medical, organizational, industrial, etc).

## Capabilities

- Learning from internal organizational data (documents, reports, procedures, correspondence)
- Accurate questions and answers based on local knowledge and specific laws/regulations
- Summary, key information extraction and official content production
- Persian natural language processing with very high language adaptation
- RAG module for instant connection to up-to-date data

## Technologies

- Domain-tuned LLMs
- Vector search engine for retrieving organizational documents
- Error control, internal source citation and response validation
- High security and completely in-house data storage

## Value Proposition

- Increase decision-making accuracy and reduce reliance on human resources
- Maintain confidentiality and use of the organization's native data
- Speed up processes (from 1-minute to a few seconds response)
- Customizable for each organization and area of expertise

Services provided by VFT in the field of text processing

# Artificial Intelligence Chatbot Legal Assistant (Lawyer)

- ◆ Increasing the productivity and speed of lawyers in analyzing cases, preparing documents, and accessing legal knowledge.

## Capabilities

- Accurately answering legal questions based on laws and judicial procedures
- Summary of cases, extraction of key points and preparation of reports
- Generation of draft contracts, bills, petitions and official letters
- Smart search in similar documents, regulations and opinions
- Analysis of legal scenarios and provision of suggested solutions

## Technologies

- LLM models for Persian legal texts
- Vector search engine (RAG) with indexing of laws and judicial opinions
- Legal error control and claims validation module
- High data security and absolute confidentiality of files

## Value Proposition

- Reduce the time and cost of preparing legal documents
- Increase accuracy in decision-making and prevent human error
- Empower lawyers and law firms with intelligent automation
- Customizable for specialized areas (criminal, family, financial, contracts, etc.)

Services provided by VFT in the field of text processing

# AI chatbot based on ۱۲ Days of War data

- ◆ Creating an intelligent assistant for accurate analysis, narration, and response about the events of the "۱۲ Days of War" by relying on reliable news sources. (Commissioned by the Islamic Revolution Arts Center)

## Capabilities

- Collecting data from official and reputable news agencies
- Content-based cleaning, structuring and indexing
- Collecting narratives, timelines and field analyses
- Accurate questions and answers about the events, actors, timing and consequences of the ۱۲-day war
- Providing narrative summaries, analytical reports and thematic narratives
- Content production for media, research and artistic productions
- Smart search in news archives based on time, topic, keyword and event flow

## Technologies

- LLM models enhanced with RAG based on native data
- High-level Persian vector search engine and linguistic analysis
- Validation of responses and citation to original news sources

## Value Proposition

- A trusted, fast, and intelligent source for researchers, journalists, and content producers
- Increase historical narrative accuracy and reduce human error
- Transform vast amounts of scattered news into structured, usable knowledge

Services provided by VFT in the field of text processing

# Smart answering service Comments and support

- ◆ Providing an intelligent system for analyzing, categorizing, and automatically responding to user comments, messages, and support requests on websites and enterprise platforms

## Capabilities

- Automatically receive and process user messages, comments, and tickets
- Intelligent categorization of requests (technical, financial, order tracking, complaints, etc.)
- Generate appropriate and personalized responses with LLM models
- Analyze user sentiment to prioritize sensitive issues
- Transfer complex issues to human support with automatic summarization

## Technologies

- Deep learning models and Persian LLM
- Vector search engine to connect to the support knowledge base
- RAG module for citing internal articles and documentation
- Integration with CRM, ticketing, and management dashboard

## Value Proposition

- Reduce support team workload and increase response speed
- Increase user satisfaction with accurate and coordinated responses
- Reduce operational costs and streamline customer interactions
- Customizable for any organization, product, and line of business

Services provided by VFT in the field of text processing

# Intelligent support response system for Puzzle Company

- ◆ Increasing the speed, accuracy, and quality of puzzle support responses through intelligent message analysis and generating responses consistent with organization policies.

## Capabilities

- Automatic classification of messages and tickets (technical, financial, registration, performance issues, etc.)
- Intelligent analysis of sentiment and urgency for prioritization
- Generate accurate, coherent responses in accordance with internal guidelines
- Propose solutions to human experts and enable automatic responses in simple cases
- Summary of long conversations and creation of "Context Packages" for delivery to the operator

## Technologies

- Specialized LLMs on Puzzle data + RAG for connection to internal documentation
- Sentiment/Frequency Analysis module
- Intelligent Workflow engine for referral to the relevant unit

## Value Proposition

- Reduce support workload by 40-50%
- Reduce response time and increase customer satisfaction
- Standardize responses and prevent human errors
- Enable growth without the need to increase staff

Services provided by VFT in the field of software

# ERP system

- ◆ Creating an integrated, scalable, and economical platform for managing organizational processes by relying on an open-source, internally developed ERP.

## Capabilities

- Full customization of modules based on the operational needs of the organization
- Integration of financial, administrative, sales, warehouse, human resources and project processes
- Improvement of workflow, reporting and internal automation
- Ability to rapidly develop new modules without license restrictions

## Technologies

- Based on open-source ERP with modular architecture
- Development and localization of code within the company
- Role-based access control and API for connecting to systems

## Value Proposition

- Reduce the cost of commercial software and dependence on external vendors
- Faster change implementation and fully internal support
- Fully aligned with the organization's actual processes
- Expandability for future needs and large-scale organization

# TalenticAI intelligent talent search system

- ◆ Identify, analyze, and nurture talent for organizations, schools, clubs, and educational centers using artificial intelligence, standardized tests, and behavioral data analysis.

## Capabilities

- Multidisciplinary tests: sports, arts, education, cognitive and personality
- Performance assessment with video, audio and practical assignments
- Intelligent analysis of results using AI models based on behavioral and skill profiles
- Integrated talent profile including strengths, performance type, growth potential and recommended path
- Match & Fit Engine Intelligent matching of talent with discipline, learning path, coach or organizational role
- Organizational dashboard: ranking, comparison, discovery of hidden talents, progress monitoring
- Intelligent coaching system: practice recommendation, growth plan, and personalized feedback
- Test management system: automatic design, scheduling and evaluation

## Technologies

- Machine learning models for analyzing test results, video and behavioral data
- Processing and feature extraction from multiple sources (Multimodal AI)
- Talent-Matching Engine
- Scalable infrastructure based on microservices and analytical database
- Integrated APIs for connecting to LMS, educational and HR systems

## Value Proposition

- Integrate the talent discovery and assessment process
- Increase the speed and accuracy of decision-making for coaches, schools and organizations
- Reduce human error in assessment and selection
- Provide deep and actionable analytics for personal development
- Full customization for any industry: sports, arts, education, human resources, competitions and events

Services provided by VFT in the field of image processing

# Intelligent video surveillance system for security management

- ◆ Increasing the accuracy, speed, and effectiveness of security surveillance through artificial intelligence and automated analysis of camera images.

## Capabilities

- Abnormal behavior detection (conflict, gathering, suspicious activity)
- Motion detection in restricted areas and rapid alert
- Tracking people in different environments with face matching
- Detection of dangerous objects (tools, cold weapons, etc.)
- Automatic analysis of people counting in prisons and areas

## Technologies

- Machine vision models (Object Detection, Action Recognition)
- Real-time image processing with GPU support
- User management system and access levels
- Support for RTSP and ONVIF protocols

## Value Proposition

- Reduce human error
- Rapid response in critical situations
- Increase employee security and protection
- Ability to accurately report and document events

Services provided by VFT in the field of image processing

# CCTV camera management system

- ◆ Creating a stable, secure, and integrated platform for managing CCTV cameras using open source software that is fully customized in-house for organizational needs.

## Features

- Support for various protocols (RTSP, ONVIF) and connection to various cameras
- Advanced live view, archive and playback with full control
- Event detection (Motion Detection, image loss, security alert)
- User management with role-based access levels
- Administrative panel for settings, server management and system health monitoring

## Technologies

- Machine vision models (Object Detection, Action Recognition)
- Real-time image processing with GPU support
- Based on open source software with modular architecture and internal development
- Performance optimization for large-scale video processing
- API for connection to security and access control systems

## Value Proposition

- Reduce license costs and dependency on external services
- Full customization to meet customer security and operational needs
- Scalability for small organizations to large surveillance networks
- Full support from internal team and rapid development of new capabilities

## System for detecting unknown objects in the body using Back-Scatter Laser Imaging processing

- ◆ Non-invasive identification of unknown or abnormal objects inside the body by analyzing laser reflection patterns (Back-Scatter) and advanced image processing.

### **Technology mechanism:**

- Low-power laser radiation and receiving back-scatter reflections from tissue and internal objects
- Formation of light scattering map to detect anomalies and unusual materials

### **Processing and analysis:**

- Optical signal preprocessing (Noise Reduction, Normalization)
- Extraction of tissue and object features with laser imaging methods
- Use of object detection models and CNN/Transformer networks
- Use of Zero Shot methods

### **Applications:**

- Foreign object detection (metallic/non-metallic)
- Helps in rapid detection of injuries, bullets, bone fragments or swallowed objects
- Suitable for emergency, security and minimally invasive imaging situations

### **Value proposition**

- Non-invasive and safe method with high detection speed
- Ability to detect even in environments with limitations of traditional imaging
- Reduce errors and increase accuracy by relying on artificial intelligence and optical data

## Artificial intelligence pipeline for producing sculptures based on psychological criteria

- ◆ Converting individuals' psychological indicators into a three-dimensional art form (sculpture) using an intelligent and creative processing chain.

### **Pipeline stages:**

- Psychological data collection: test results, personality profiles, emotional and behavioral indicators
- Psychological interpretation: converting raw data into a “personality trait map” using NLP models and behavioral analysis
- Transforming traits into artistic parameters: mapping traits (e.g., extraversion, emotional stability, creativity) to form, volume, angles, and texture
- 3D model generation: using generative 3D models (e.g., Neural Implicit Models or Diffusion 3D)
- Refinement and optimization: checking aesthetics, physical stability, and preparing for 3D printing

### **Technologies:**

- Psychological data analysis with NLP
- 3D Generative AI
- Feature-to-Geometry Mapping engines

### **Value Proposition**

- Creating personalized art based on the individual's true psychological identity
- The ability to transform psychological tests into tangible and engaging output
- Application in Art Therapy, gifts, exhibitions and interactive experiences
- Development potential for brands, galleries and cultural-art projects

Services provided by VFT in the field of audio processing

# Persian Speech Corpus Dataset

- ◆ Creating a standard, rich, and diverse dataset for training and evaluating Persian-language speech recognition, speech-to-text, and artificial intelligence models.

## **Data specifications:**

- Includes thousands of speech samples in different acoustic conditions
- Coverage of diverse dialects, ages and genders
- Recorded in controlled and real environments (Studio / Natural)
- Text variety: everyday conversation, formal texts, news, grammatical sentences, voice commands

## **Processing and labeling:**

- Accurate text-voice labeling (Alignment)
- Noise removal and voice normalization

## **Use cases:**

- Persian ASR training, Voice Command, Call-center AI
- Improving the accuracy of voice chatbots and IVR systems
- Academic research and multilingual speech models

## **Value Proposition**

- Significant increase in accuracy of Persian models compared to public datasets
- Possibility of localization, internal development and privacy protection
- Extensible to the fields of medicine, transportation, banking and e-government

Services provided by VFT in the field of audio processing

# Persian Speech Recognition (ASR)

- ◆ Accurate and stable Persian speech-to-text conversion, supporting various audio environments and enterprise applications.

## Features:

- Dedicated Persian ASR model based on deep networks (End-to-End)
- Support for natural conversation, voice commands and rapid speech
- Resistance to ambient noise and unprofessional recording
- Real-time and Batch processing capabilities

## Data and training:

- Training on diverse Persian audio dataset (age, gender, real environments)
- Accurate text-to-voice labeling and acoustic normalization

## Integration and features:

- API for connecting to chatbots, call centers, IVR and mobile applications
- Ability to add custom dictionaries for specialized terms

## Value Proposition

- Increase the accuracy and speed of the organization's voice inputs
- Improve user experience and reduce human resource costs
- Full localization for Persian language and dialects

Services provided by VFT in the field of audio processing

# Persian text-to-speech (TTS)

- ◆ Generating natural, fluent, and understandable speech from Persian text for organizational, content, and interactive applications.

## Features:

- Advanced Farsi TTS model based on deep networks (Neural TTS)
- Generation of human voice with natural tone, pause and rhythm
- Support for multiple voice types (male/female)
- High-quality output suitable for applications, call centers and smart assistants

## Data and training:

- Training based on diverse and standard Persian audio dataset
- Accurate text-to-speech alignment and acoustic normalization
- Integration and features:
- API for connecting to chatbots, websites, applications and IVR systems
- Ability to process offline or on an internal server to maintain confidentiality

## Value Proposition

- Producing natural Persian speech without the need for a speaker
- Reducing content production costs and improving user experience
- Full localization capability based on the needs of corporate customers

# Intelligent system for predicting house prices for renovation

- ◆ Accurate estimation of property renovation costs based on real market data, building specifications, and various renovation scenarios.

## Capabilities:

- Automatic analysis of property characteristics (meterage, building age, materials, location, construction quality)
- Machine learning model to predict renovation costs at different levels (partial, average, complete)
- Provide comparative scenarios: minimum, actual and maximum estimates
- Module for calculating required items and materials and estimating their prices\

## Data and modeling:

- Use of field price data, expert reports and contractor invoices
- Periodic model update with current market prices

## Value Proposition

- Reduce estimation errors and prevent unforeseen costs
- Increase the decision-making power of the owner and contractor
- Ability to quickly estimate even without the presence of an expert on site
- Complete transparency in costs and accurate comparison of renovation options

# ITC and World Bank International Opportunities Smart Information System

- ◆ Fast, accurate and categorized access to international funding opportunities, projects and tenders published by ITC and the World Bank.

## Capabilities

- Real-time monitoring of new opportunities (Projects, Grants, Tenders)
- Categorizing by country, area of expertise, budget and type of opportunity
- Smart alerts (Email/SMS/Dashboard) for opportunities related to the organization
- Advanced filtering and creation of "Opportunity Profile" according to needs
- Archive and reporting of past opportunities and trend analysis

## Technologies

- Crawler module with NLP for automatic extraction of project title, budget, deadline and scope
- Web-based dashboard with different user roles
- Artificial intelligence engine for prioritizing opportunities

## Value Proposition

- Increase the speed of identifying international opportunities
- Eliminate manual searching and reduce human error
- Help make quick decisions to participate in projects
- Availability of all opportunities on a single platform

Services provided by VFT in the field of software

# DevOps on Mehra Platform

- ◆ Ensuring the sustainability, speed of development, and continuous delivery of sales services and cultural-artistic services of the Mehra platform.

## **Infrastructure and Deployment:**

- Container-based deployment (Docker)
- Separate environments for development, testing and production
- Auto-scaling for load management of cultural events and peak sales

## **CI/CD:**

- Implementation of automated Build, Test and Deployment pipelines
- Zero-Downtime Deployment
- Version management and rapid rollback

## **Monitoring and logging:**

- Real-time monitoring with Prometheus and Grafana
- Log aggregation and analysis with ELK Stack
- Smart alerting for sensitive services

## **Value Proposition**

- Increase product development speed
- Reduce deployment errors and improve service reliability
- Provide a stable infrastructure for large-scale art events and online sales

Services provided by VFT in the field of software

# Laranshimi sales and user management platform

- ◆ Creating an integrated platform for supplying chemical raw materials with wholesale and retail sales capabilities, order management, and specialized user authentication.

## Capabilities

- Online sales of chemicals in bulk and retail with dynamic pricing
- Multi-level authentication for real and legal customers
- Order registration management, pre-invoice issuance and secure payment
- Professional user profile
- Admin panel for managing goods, approving users and controlling transactions

## Technologies

- Scalable architecture with web and B2B commerce standards
- Connection to payment gateways
- Smart search engine to find chemicals with specialized features

## Value Proposition

- Simplify the chemical purchasing process with a trusted supply chain
- Increase security and prevent unauthorized purchases through targeted authentication
- Faster material sourcing for companies, universities, and laboratories
- Grow wholesale and retail sales with an integrated and scalable platform

Services provided by VFT in the field of software

# Wojoooh Website, BPC Healthcare Platform, Aryashik Holding

◆ Providing a secure, fast and user-friendly online shopping experience for cosmetic products in the BPC market

## Features

- Developed on WordPress and WooCommerce
- Lightweight, mobile-friendly and SEO-friendly design
- Ability to manage products, inventory, orders and campaigns
- Complete product catalog from reputable brands
- Smart search and advanced filters
- User panel with purchase history, order tracking and address management
- Connection to payment gateway and shipping system

## Technologies

- Scalable architecture with web and B2B commerce standards
- Connection to payment gateways
- Smart search engine to find chemicals with specialized features

## Value proposition

- Strengthening the Aryashik brand in the online market
- Increasing direct sales (DPC) without intermediaries
- Simple, fast and reliable user experience
- Ability to upgrade and add smart modules (product suggestions, ratings, chatbots, etc.)

# Implementation of the official website of the Iranian Kickboxing Association

- ◆ Creating an official, modern, and reliable portal to introduce the association, publish news, manage athletes, and provide online services to members.

## Capabilities

- Development on the platform of the official section of news, announcements and competition results
- Registration of athletes, coaches and referees with dedicated profiles
- Event management system: holding courses, competitions and workshops
- Official image and video gallery
- Regulations, regulations and federation documents section
- Administration panel for publishing content and managing users

## Technologies

- Web-based implementation with responsive design (mobile/tablet/desktop)
- Connection to membership database and membership card issuance system

## Value Proposition

- Increase the transparency and credibility of the association at the national level
- Facilitate communication with athletes, coaches and boards
- Integrated management of competitions, courses and administrative affairs
- Fast and professional updating of the association's official information

# Implementation of the official website of the Asian Kickboxing Association

- ◆ Creating an international, professional portal to introduce the Asian Kickboxing Association, publish official news, manage events, and provide online services to athletes from different countries.

## Features

- Official publication of news, announcements, competition results and Asian rankings
- Registration of athletes, coaches and referees from member countries with international profiles
- Continental event management system: competitions, seminars, training courses
- Video and image gallery of Asian competitions and events
- Multilingual support (English, Persian, Arabic and required languages)
- Professional admin panel to control content, users and community structure

## Technologies

- Web-based implementation with responsive design (mobile/tablet/desktop)
- Connection to membership database and membership card issuance system

## Value Proposition

- Increase transparency and enhance the international credibility of the association at the Asian continent level
- Integrate event management and communication with member countries
- Provide fast, transparent and standardized access to official information and rankings
- Facilitate interaction between federations, delegations and athletes on the continent

Services provided by VFT in the field of software

# Introducing the collection of scientific articles produced

- [Deep feature extraction method based on ensemble of convolutional auto encoders: Application to Alzheimer's disease diagnosis](#)
- [Applying support vector data description for fraud detection](#)
- [Classification of jujube fruit based on several pricing factors using machine learning methods](#)



# Making the production line intelligent using artificial intelligence techniques

- ◆ Increasing productivity, reducing errors, and optimizing time and cost in production lines by relying on artificial intelligence models.

## Capabilities

- Machine vision for real-time monitoring of product quality (QC)
- Detect anomalies in equipment by analyzing vibration patterns, sound, and industrial sensors
- Predict equipment failures (Predictive Maintenance) with ML models
- Optimize energy consumption and production scheduling with intelligent algorithms
- Intelligent robotics and AI-based automatic control to reduce the need for human operators

## Technologies

- Collect data from sensors, cameras, and PLC
- Data processing and analysis at the edge (Edge AI) or central server
- Real-time monitoring dashboards for production managers
- Connect to ERP/SCADA systems for seamless coordination

## Value Proposition

- Increase productivity and reduce line downtime
- Reduce human error and increase production quality
- Save on maintenance costs and extend equipment life
- Enable faster and more accurate data-based decision-making

Services provided by VFT in the field of software

# Capabilities and areas of cooperation in technology development

## **Artificial Intelligence and Machine Learning**

- Image Processing, Machine Vision, NLP, Decision Support Systems
- Predictive Modeling, Big Data Analysis, Generative Models (Generative AI)

## **Development of Chatbots and Smart Agents**

- Specialized Chatbots Based on LLM
- Multi-stage Agents for Performing Complex Tasks
- RAG, Connection to Databases and Internal Systems

## **Software Development and Enterprise Automation**

- ERP, CRM Systems and Custom Platforms
- DevOps, CI/CD, Containerization, Monitoring

## **AR/VR and Metaverse Technologies**

- Educational Simulators
- 3D Interactive Environments
- Real-Time Modeling and Rendering

## **Voice and Speech Processing**

- ASR and Persian TTS
- Voice Modeling, Voice Cloning and Voice Intelligence

## **Data Analysis and Predictive Systems**

- Regression, Classification and Forecasting Models
- Analytic Dashboards and Intelligent Monitoring Systems

## **Development of Intelligent Systems in the Health Sector**

- Image-Based Medical Diagnosis
- Medical Signal Analysis
- CAD and Clinical AI

## **Platform Design and Implementation**

- Web and Mobile Applications
- API, Microservices and Cloud-native Architecture

Services provided by VFT

# Software engineering services



Using the latest technologies and methodologies, we design, develop, and deploy enterprise and custom software so that businesses can make their processes intelligent, scalable, and reliable.

## **Enterprise Platform Development**

- Human Resource Management (HRM) Software
- CRM and ERP Systems
- Proprietary Enterprise Systems

## **Web and Mobile Design and Development**

- Web Development with Modern Frameworks such as FastAPI and Next.js
- Mobile Applications for iOS and Android
- Professional and Responsive UI/UX Design

## **Analysis, Data Management and Software Architecture**

- Organizational and Analytical Database Design
- Data Processing, ETL and Data Pipeline
- Scalable and Modular Software Architecture

## **Deployment, Maintenance and DevOps**

- Implementing Sustainable Infrastructure with Docker, Kubernetes and Cloud
- MLOps and AI Model Lifecycle Management
- Support, Maintenance and Update of Systems

## **Custom and Intelligent Solutions**

- Development of Industrial and Enterprise Automation Systems
- Machine Vision and Image Processing Solutions
- Artificial Intelligence, Machine Learning and NLP Projects

Services provided by VFT

# VFT Consulting Services



We accompany organizations and businesses on the path of intelligence and digital transformation and provide innovative solutions based on artificial intelligence.

## **AI and Data-Driven Consulting**

- Analyzing Needs and Identifying AI Opportunities
- Designing Data-Driven Solutions and Machine Learning Models
- Optimizing Organizational Decision Making with Data and AI

## **Digital Transformation and Process Consulting**

- Analyzing and Redesigning Organizational Processes
- Designing Systems Architecture and Software Infrastructure
- Proposing Automation and Productivity Improvement Solutions

## **Technology Deployment Consulting and Team Training**

- Deployment of Intelligent Software and Systems
- MLOps, DevOps and Systems Lifecycle Management
- Training Teams to Fully Leverage AI Technologies

## **Dedicated Industrial and Organizational Consulting**

- Designing Custom Solutions for Various Industries
- Machine Vision, Image Processing, NLP and Predictive Systems
- Providing Scalable and Sustainable Solutions

# Special services for factories and industries



Developing and implementing smart solutions and industrial automation to increase productivity, reduce errors, and optimize production processes and factory management.

## **Automation and optimization of production processes**

- Production line analysis and improvement
- Intelligent quality control and error prediction
- Automatic control and monitoring systems

## **Data management and performance prediction**

- Collection and analysis of factory operational data
- Production, maintenance and energy consumption prediction models
- Management dashboards and real-time reporting

## **Machine vision and intelligent monitoring**

- Product defect detection and visual quality control
- Machinery and equipment monitoring systems
- Intelligent monitoring of employee safety and the workplace

## **Customized AI solutions for industries**

- Machine learning models for equipment failure prediction
- Production and inventory optimization algorithms
- Intelligent decision-making and resource management systems

## **Industrial consulting and digital transformation**

- Design and implementation of digital transformation solutions for factories
- Training and empowering teams to exploit smart technologies
- Deploying software and data infrastructure for factories

Services provided by VFT

# Augmented reality (AR) and virtual reality (VR) technologies

◆ Design and implement AR and VR solutions for training, simulation, process improvement, and interactive experience of organizations and industries.

## **Simulation and Training**

- Training employees and operators with real-world environment simulation
- Reducing errors and increasing safety with VR training
- Training complex industrial processes with augmented reality

## **Interactive display and marketing**

- Displaying products and services in 3D and interactively
- Creating an engaging customer experience with AR/VR
- Virtual tours of factories, training centers, and projects

## **Process optimization and product design**

- Production line simulation and product design in a virtual environment
- Testing different scenarios without stopping real production
- Performance analysis and optimization before implementation

## **Customized enterprise solutions**

- Development of specialized AR/VR software for industries and businesses
- Connecting to data and AI models for advanced interactive experience
- Augmented reality systems for support and guidance in the workplace

# Communication methods



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