vebtech

2025

Expertise-Driven.
Business-Focused IT-Solutions

About us

- Full cycle development
- Own IT products
- High Tech Park Resident

270+
IT specialists

25+
Years of experience
in fintech

130+
Certificates in IT

90%
Of our staff are
Senior level or higher

Service line

Mobile Development

- Native
- Cross-Platform
- UI/UX design
- Testing and QA
- Team augmentation

Web Development

- Web Applications
- PWA development
- UI/UX design
- QA for web projects
- Team augmentation

Software Development

- Product software
- Enterprise applications
- Team augmentation

Business Process Management

- Online SME Business loans
- Online invoice financing
- Online-factoring
- Online guarantees
- Decision making process automation

Data Management

- Data storage organization
- EDW architecture and implementation
- Migration to open-source solutions
- BI-system implementation

Open API

- Architecture and implementation
- Consent management
- Strong Customer authentication implementation
- API on WSO2 Platform

Service line

IT-services Monitoring

- Network monitoring
- Server monitoring
- Cloud monitoring
- Application monitoring
- Service monitoring

IT-services Management

- Incident and Problem management
- Service request management
- Configuration management
- IT-infrastructure discovery
- IT assets and reporting management

Data protecting monitoring

- Information security audit
- Penetration testing
- Monitoring and response
- Information security management systems development

AI Solutions

- Data mining
- Machine learning
- Deep learning
- Computer vision
- Advanced data analytics

IT-consulting

- Design and development of information systems
- Business process reengineering
- Development of technical requirements for software
- Development of process knowledge bases

Technology stack

Back-end


C#

NET Core


Java


Python

Databases


PostgreSQL

Oracle

MySQL

SQL Server

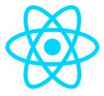
DB2

MongoDB


Redis

Front-end

JavaScript


React


Angular

Platforms

OpenText


Grafana

Finastra

IBM


OpenTelemetry

iTOP

ELMA

Zabbix

Pega


ELK

GLPI

Mobile technologies


Swift

Objective-C


RxJava


Kotlin

AI and ML Powered Solutions

The innovative division of vebtech, focused on developing and implementing scalable AI solutions that effectively address business challenges and transform key business processes.

Computer vision

- Image recognition and object detection
- Document scanning and recognition (OCR)
- Visual content classification
- Video tracking
- Anomaly and defects detection
- Biometric authorization
- Action Analysis: The study of the behavior and interactions of users and objects

Natural language processing

- Sentiment analysis
- Text analytics
- Language translation
- Virtual assistants and chatbots

Speech recognition

- Voice-controlled systems (voice search, voice assistants, speaker identification)
- Speech-to-text conversions
- Voice sentiment analysis

Data Science

- Customer Data Management System (CDM)
- High-Accuracy Predictive Models
- Machine Learning-Based Credit Scoring

MLOps

- Automation
- Monitoring
- Version Control
- Scalability

Core capabilities of Computer Vision

OCR

Extracts and interprets text from images, documents, and video frames, enabling automated reading of license plates, documents, and signage.

Classification

Automatically assigns categories or labels to objects within images or video, such as identifying vehicle types, uniforms, or equipment.

Detection

Locates and identifies specific objects or features in visual data, supporting real-time threat detection, identifies unusual patterns, surveillance, and monitoring.

Tracking

Follows the movement of objects or individuals across multiple frames or cameras, essential for security, perimeter control, and crowd monitoring.

Re-Identification

Matches and recognizes the same object or person across different cameras or timeframes, even if appearance changes, supporting advanced security and investigation workflows.

3D Models

Generates three-dimensional representations from visual data, useful for spatial analysis, simulation, and planning.

Operation Scenarios:

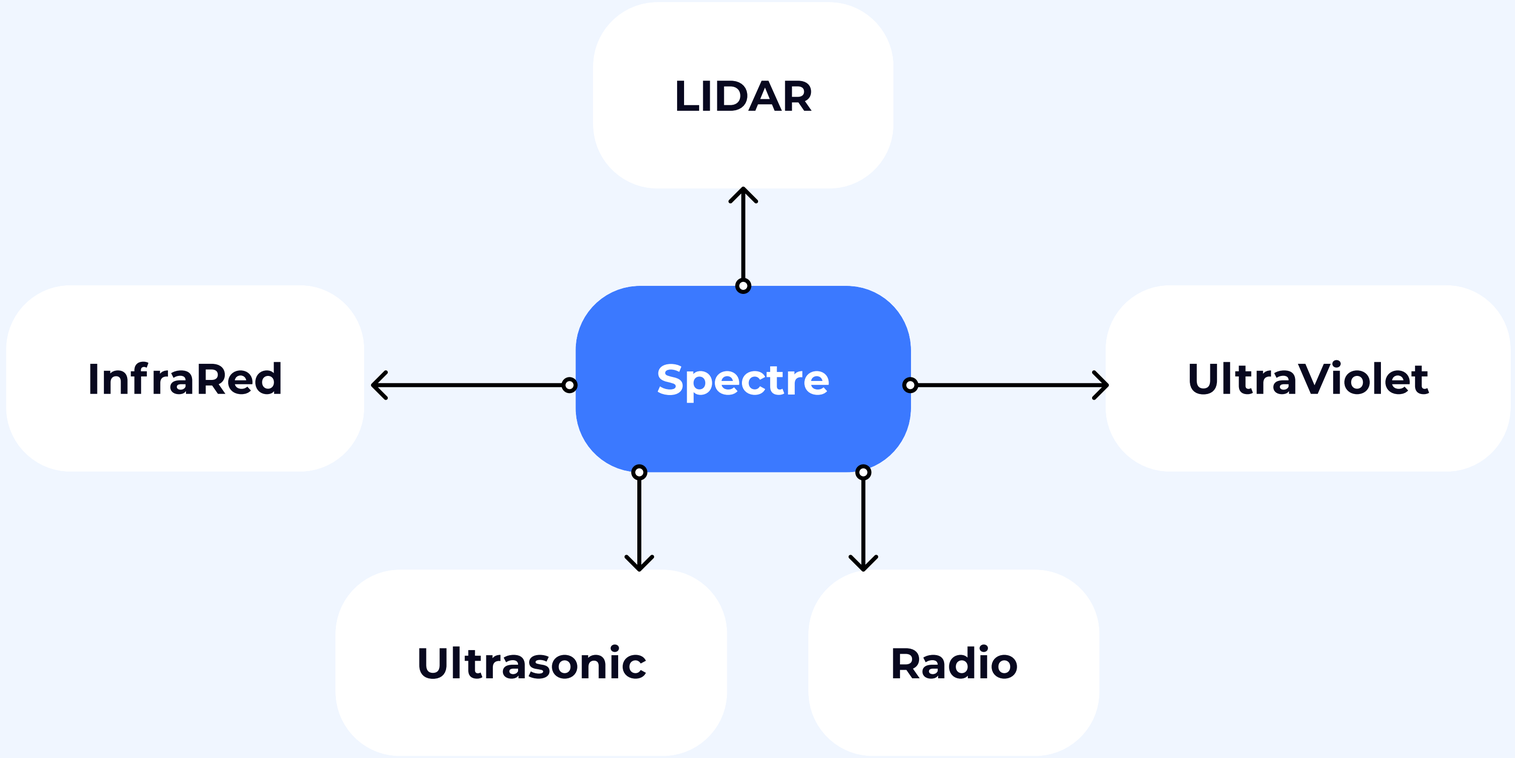
Real-Time Processing

Recording & Post-Processing

GPU in Datacenter

Embedded Solutions

The variety of sensor technologies in CV



Key Applications Areas of Computer Vision

Security & Surveillance

- Fake ID and fake face detection
- Person and anomaly detection in crowds
- Crowd size estimation, speed/behavior monitoring
- License plate recognition

Aerial & Remote Monitoring

- Vehicle and road issue detection
- Fire and electric line monitoring (incl. IR temperature)
- Wildlife observation and map validation

Automation & Safety

- Autonomous bots (aerial, ground, water)
- Checking personal safety equipment (e.g., helmets)
- Technical damage classification and repair estimation

Advanced Analytics

- Chaotic movement and unusual behavior detection
- Object re-identification (“same object at the same place”)
- Automated picture and video description

NLP + LLM: Key Capabilities and Applications

- Chatbot
- Sentiment Analysis
- Text Summary
- Auto-translate
- Lie Detection
- Smart Search in Local DB (RAG)
- Picture Description
- RAG
- Keyword Detection by Meaning
- On-line Subtitles
- Helper in What-If Reasoning

Together, NLP and LLM technologies deliver smarter communication, deeper insights, and advanced automation for defense, security, and enterprise needs.

Key Application Areas of NLP

Translation (with LLM)
Automated translation between multiple languages

Sentiment Analysis (emotions, lie detection)
Detection of emotions and potential deception in text for security and monitoring

Document Summarization (with LLM)
Automatic generation of concise summaries for large documents

Document Consistency Check (with LLM)
Verification of internal consistency within a single document

Cross-Document Consistency Check (with LLM)
Analysis and comparison of multiple documents to identify contradictions

Keyword Detection by Semantic Meaning
Identification of key concepts and topics based on meaning, not just exact word matches

Local Database Smart Search (LLM-RAG)
Intelligent retrieval and synthesis of information from local databases using LLMs enhanced with RAG

MLOps: Reliable AI Deployment & Management

MLOps (Machine Learning Operations) is a set of practices and tools that ensure your AI models are efficiently deployed, maintained, and improved in real-world environments.

- **Automation**

  Speeds up model deployment and updates, reducing manual errors

- **Monitoring**

  Continuously tracks model performance and system health

- **Version Control**

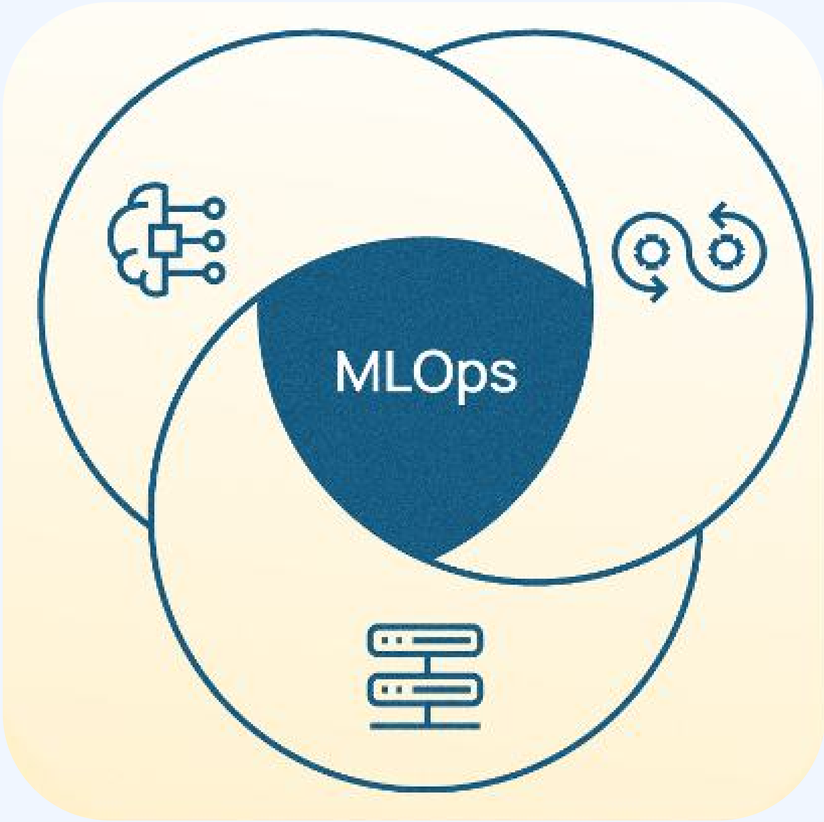
  Keeps a history of model and data changes for transparency and easy rollback

- **Scalability**

  Seamlessly moves solutions from pilot to full-scale production—on cloud, servers, or edge devices

- **Security**

  Ensures data privacy, access control, and compliance with industry standards



Data Management & Predictive Analytics

Data Management

- **Collection**

  Gathering data from sensors, cameras, databases, and external sources

- **Labeling**

  Organizing and tagging data for accurate AI training and analysis

- **Synthetic Data**

  Creating artificial data to expand datasets, improve model accuracy, and protect sensitive information

Predictive Analytics

- **Forecasting**

  Using AI to predict equipment failures, security incidents, or operational needs before they happen

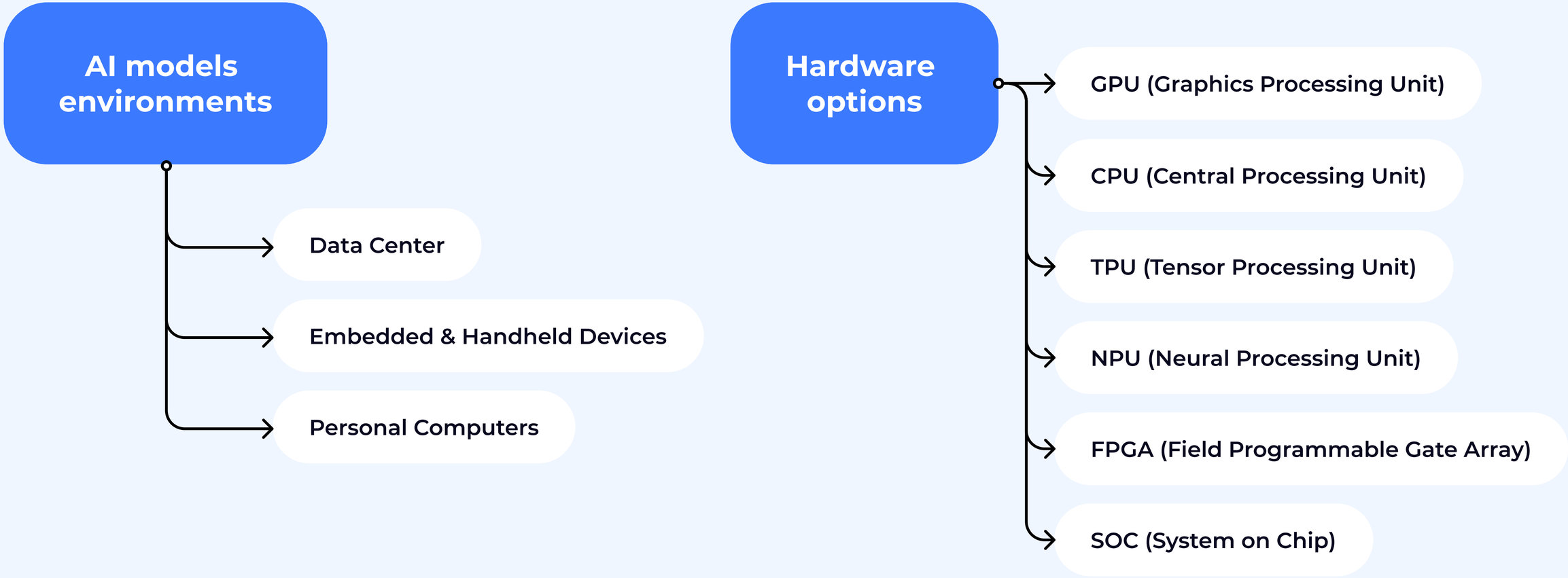
- **Scenario Modeling**

  Simulating different situations to support planning and decision-making

- **Resource Optimization**

  Analyzing trends to allocate resources efficiently and reduce costs

How and Where AI Models Run



AI can be deployed flexibly: from powerful datacenters to compact embedded devices, using a variety of specialized hardware for optimal performance and efficiency.

vebtech

Thank you for your attention!

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