





PRESENTER FULL NAME: CANSU KORKUT

ORGANIZATION: Tiga Information Technologies

WORKSHOP NAME: Digital and Smart Health

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Focusing on Healthcare IT Providing Dedicated Solutions

Global Certifications

Patents & IPRs

CMMI L3

ISO 9001, ISO 27001

Industry & Academia

R&D Center and Studies

Research Labs in Universities

50+ Academicians

Locations

Türkiye, Saudi Arabia, Qatar,

United Kingdom, Estonia

Cooperations with 50+ countries



National Healthcare System of Türkiye

- Public Hospitals
- University Hospitals
- Private Hospitals
- Family Physicians

- Private and Public Clinics
- Oral and Dental Centers
- Laboratories
- Vaccination Centers



CENTRAL EXCHANGE HUB

- · The backbone of all systems
- · PHR collection in the entire country
- · Integration of 80K healthcare institutions
- · Real-time data collection and sharing
- · Not only for Turkish citizens but also for residents and visitors
- · Physician performance monitoring



Central e-Prescription System of Türkiye

A centralized system covering the prescribing processes and integrating the stakeholders



2.2 M+ Daily Prescriptions



55 K+ Total Integrated Facilities



225 K+ Physicians



30 K+ Pharmacies

With the e-Prescription system, Turkish MoH saves more than 6000 trees from being cut in a year. All the fake prescriptions and report usage have ended.

-Turkish Ministry of Health

- Prevention of the use of fake prescriptions
 and report
- Prevention of the abuse of narcotic drugs
- Standard integration for large-scale health
 IT systems
- Code-specific prescription viewing
- Pharmacovigilance data for drug authorities
- EHR Security

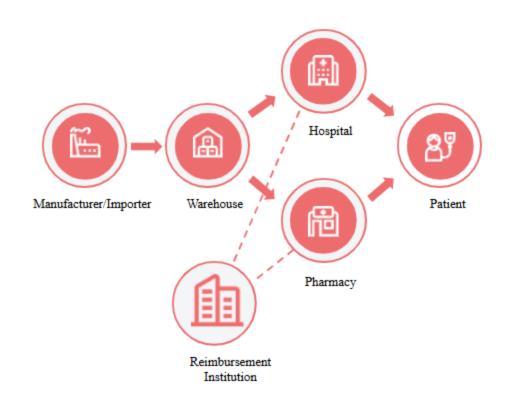


Pharmaceutical Track & Trace System

- Box-level tracing
- End-to-end traceability
- Covering the whole country
- Prescribed & non-prescribed drugs
- Nutrition products & supplements
- GS1 compliant serialization
- Easy integration with all stakeholders



2D Data Matrix Barcode





Commercial Products













QPTTS

Qatar Pharmaceutical
Track and Trace System





Drug Track and Trace System (RSD)



Teams' Expertises

- Pose Detection & Estimation
- Data Anonymization
- Medical Image Processing
- Synthetic Data Generation
- Large Language Models



6 EU Funded Projects

17 TÜBİTAK Funded Project



Edge Computing
Embedded Sytems
Gamification
Mobile & Web Applications



Research Fields

Artificial Intelligence & Machine Learning

- Pose Detection and Estimation
- Large Language Models
- Generative Al



Cybersecurity & Data Privacy

- Data Anonymization
- Data Anomaly Detection
- Synthetic Data Generation



- Medical Image Processing
- Edge Computing
- Embedded Systems





Data Analytics & Business Intelligence

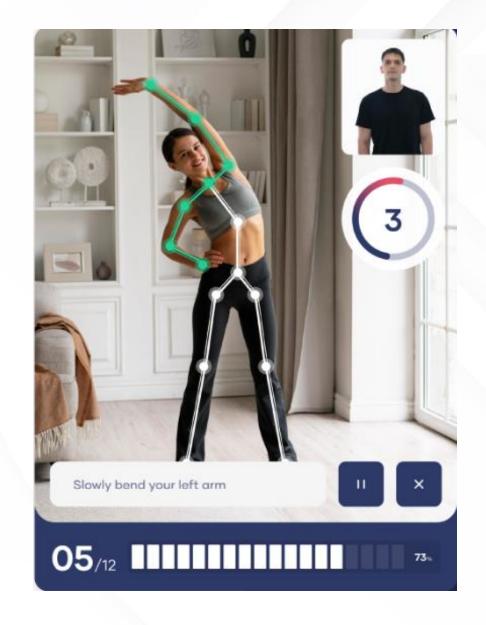
- Radar Signal Processing
- Business Intelligence Applications



MobiThera

Al-driven telerehabilitation app for personalized exercise system

- Custom dataset
- Custom trained model
- No Extra Hardware (Works only with mobile cam)
- Real-Time Tracking
- Personalized Care Plans
- Progress Tracking
- Global Access to Experts





XRCycling

Al-powered personalized exercise bike gaming platform to combat obesity

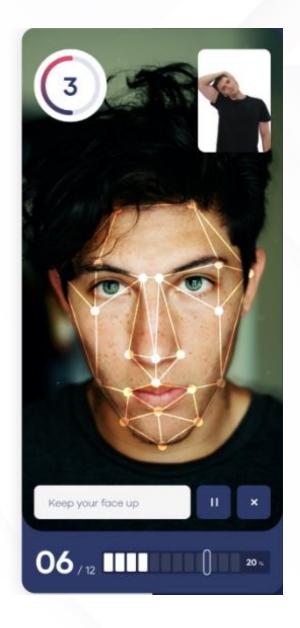
- Facial expression and fatigue analysis
- Integration of VR with Virtual Reality
- Integration of game scenarios with pedals
- Integration of EMG sensors
- Personalized exercise guidance with sports bot





NeckEx Gamified Neck Exercise Platform

- Promptable Game Modelling
- Personalized exercise plans for neck disorders
- Remote support from experts
- Use with mobile devices, no extra sensors
- Adaptive Difficulty



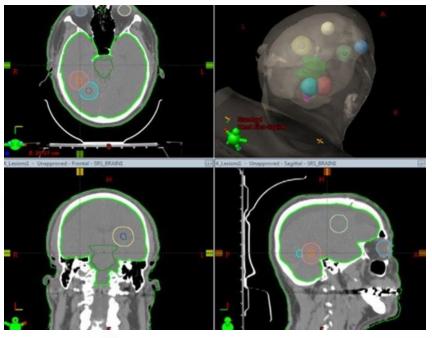


Rad-Thera

Automated tumor and organs-at-risk segmentation

- Accurate delineation of tumors and organs-at-risk
- Enhanced treatment planning with AI algorithms
- Dose optimization for precise radiation targeting and protection of healthy tissues
- Seamless Clinical Integration







DMEK - TRACK

Al-driven monitoring for DMEK surgery patients

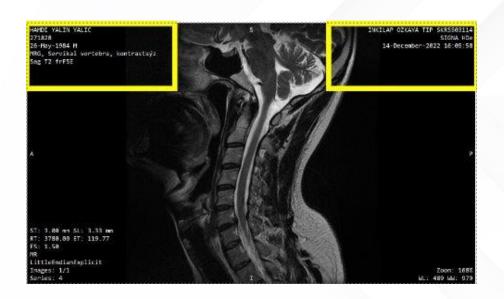
- Analyzes OCT & IVCM images for graft and cell health with AI
- Reduces unnecessary advanced exams
- Directs patients to advanced exams only when needed
- Trained and tested with real-world DMEK surgery patient data
- Custom dataset and segmentation

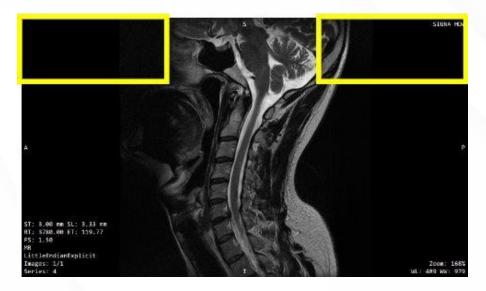




AUTONONYM Al Based data anonymization for privacy

- Protects privacy, maintains data usability
- Uses AI to identify the most valuable representation of the dataset while preserving essential information
- Provides various statistical and AI based techniques to the user
- Ensures adherence to data protection laws (e.g., KVKK)



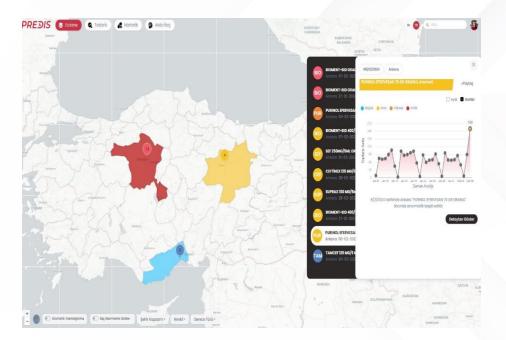


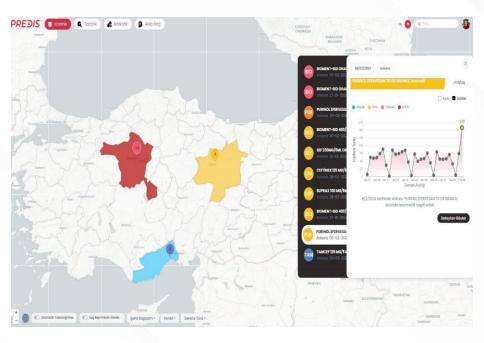


PREDIS

Al-driven drug sales anomaly tracking, predicting, and procurement management system

- Regional drug sale anomalies using ITS data with the early warning system
- Tracks the path of drug including production, sales, prescription, and deactivation
- Detected anomalies are grouped based on their risk
- Prediction of drug accessibility







PreCareAl

Al-powered platform for efficient patient assessments, appointments, and follow-ups

- Analyzes complaints and suggests clinics with Al Pre-assessment
- Matches patients with appropriate clinics, remote or physical
- Prepares referral for doctors
- Tracks patient progress, care, and satisfaction
- Reduces unnecessary visits





AISYM4MED

Secure, privacy-compliant platform

- Anonymization, GDPR compliance
- Synthetic Data Generation
- Federated Architecture, Cross-border data
- analysis
- Robustness evaluation with real/synthetic data
- Benefits for researchers, patients, and healthcare systems

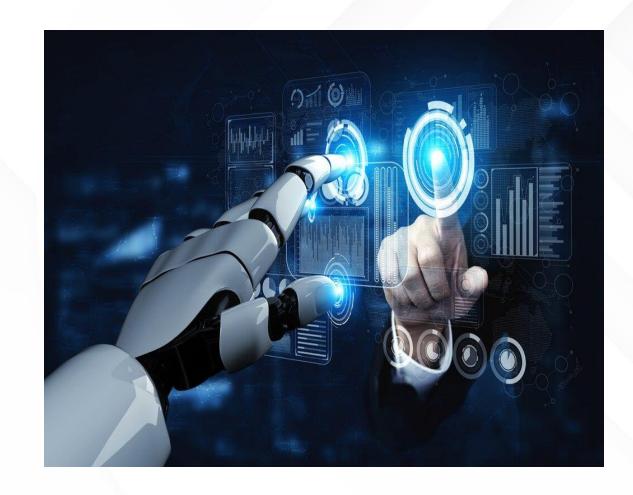




HIVEMIND

Al-Driven, Responsible Software Engineering for the Entire Lifecycle

- Enhances all SDLC stages
- Adaptive LLM agents for specific roles
- Supports smart system specification and agile modeling
- Design-by-contract programming for code alignment
- Automates vulnerability assessment and selfrepair
- Integrates RAG and Human-in-the-loop for learning
- Focus on responsible Al and ethical practices





PREDIS

Call Topic: HORIZON-HLTH-2025-01-DISEASE-04: Leveraging artificial intelligence for pandemic preparedness and response

Deadline Dates: 18 September 2025

☐ An LLM-based study on early detection of drug abnormalities and future diseases



PreCareAl

Call Topic: HORIZON-HLTH-2025-01-CARE-01: End user-driven application of Generative Artificial Intelligence models in healthcare

Deadline Dates: 18 September 2025

•Leveraging Generative AI to assess patient complaints, match them with suitable clinics, generate referrals, and track progress, reducing unnecessary visits and improving healthcare efficiency



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