Andrejs Fedjajevs

Data Science & Engineering Consultant

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A data scientist and engineer with 6+ years experience of employing right tools (signal processing, machine learning, AI) to answer business questions or facilitate data-driven decisions. Competent in consultancy research and advanced development projects, in direct contact with stakeholders. Strong individual contributor, with experience as a project and competence team lead.

Looking for opportunities as a data professional with senior responsibilities and a steep learning curve in a tech company striving for efficiency. My goal is to work on data strategy and execution leading to a relevant insight, proof of concept or technology.

SKILLS

Tools

Python, MATLAB, SQL
PyTorch, Keras, xGB
PyQt, Plotly, PowerBI,
Azure Cloud
Git Actions, Docker
Jira

Expertise

Signal Processing
Machine Learning
Deep Learning
Dashboards
Data Engineering

Languages

English
Dutch
Latvian
Russian

Coursework & professional interests

Data system design
MLOps
Data governance
Edge ML

Design for Six Sigma *

EXPERIENCE

Philips — ***Data Scientist*** — Apr 2022 - Present

Measurement innovations for in-hospital and remote patient monitoring.

- Full-cycle development of AI models for clinical telemonitoring device (activity tracking, gait analysis) in collaboration with business and marketing
- Oxygenation signal accuracy research and skin color bias problem; Co-authored a publication validating an alternative (non-finger) SpO2 sensor
- Advocated for better knowledge management practices, promoted KPIs for reusable algorithms and efficient usage of available infrastructure

Imec — ***Senior R&D Engineer*** — Jan 2021 - Apr 2022
R&D Engineer — Oct 2016 - Jan 2021

Developed and deployed algorithms&models for vital signs, sleep, stress, activity monitoring, cardiac events, bone healing, neural stimulation from different sensors and modalities (ExG, radar, BioZ, camera, etc.)

- Accountable for **end-to-end data storage and processing framework** for wearable blood pressure device. Versatile R&D team work led to meeting AAMI standard requirements using in-house designed wristband device
- Build a real-time features extraction pipeline from a portable EEG headset for **neuromarketing** application. Created a validation framework based on **Azure MLOps** services and optimized the algorithm for noise and blink removal
- Implemented a **real-time deep learning** architecture for human gait analysis. Working alongside with partners on use-case formulation, we delivered a solution to track patients' recovery with less burden for patients and practitioners

PM, **team leadership,** publications and data infrastructure development

- Inno4Health (ITEA consortium project) data analysis&AI task: curated activities for implementing **personalized health analytics solutions**, stakeholders' management.
- **Lead an internal competence team** of biomedical algorithm developers: created efficient learning environment and resource management. We improved data analysis work reuse and reliability within the department, promoted more agile approach within non-software-development projects.

EDUCATION

Master's in Electrical Engineering — TU Delft — 2014 - 2016

Track: Signals and Systems

Thesis: Ultrasound Imaging Using a Single Element Transducer

Specialist in Electrical Engineering — SUAI — 2009 - 2014

Track: Devices and Methods of Quality Control and Diagnostics

Publications list available at google scholar profile