YELIZAVETA FALKOUSKAYA

WORK EXPERIENCE

R&D ML Engineer Intern
Xperi Inc. [11/2022 – 02/2024]

City: Galway, Ireland

Developing and analysis of experiments and machine learning models on phychophysiological characteristics within the context of automotive cases. A core research direction included the development of non-invasive techniques that can predict intoxication levels and read person's bio-signals such as heart rate and respiratory rate from near-infrared (NIR) and long-infrared (LWIR) images.
Topics: Deep Learning, CAN, LSTM, Signal processing

Creditor Control Department Assistant
Tumlare corporation [01/2020 – 06/2020]

City: Saint-Petersburg, Russia

Handling invoice processing and overseeing the collection of payments and debts, including managing accounts receivable and payable. Generating statements and preparing analytical reports to provide insights into financial performance. Collaborating with customers and the sales team to address inquiries and facilitate smooth transactions.

EDUCATION AND TRAINING

Master in Statistical Methods and Applications
Sapienza University of Rome [20/09/2021 – Current]

City: Rome, Italy
Field(s) of study: Natural sciences, mathematics and statistics
Thesis: Leveraging Self-attention mechanism in Deep Learning for Alcohol Intoxication Detection and Drunkenness Identification

Bachelor in Corporate Finance
Saint-Petersburg State University of Economics [01/09/2016 – 01/07/2020]

City: Saint-Petersburg, Russia
Field(s) of study: Economics
Final grade: 4.6/5.0

Business Administration Exchange Semester
Dresden University of Applied Sciences [01/03/2019 – 01/08/2019]

City: Dresden, Dresden
Field(s) of study: International Business

LANGUAGE SKILLS

Mother tongue(s): **Russian** | **Belarusian**

Other language(s):

Italian
LISTENING B1 **READING** B1 **WRITING** A1
SPOKEN PRODUCTION A2 **SPOKEN INTERACTION** A2

Polish
LISTENING C1 **READING** C1 **WRITING** B1
SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

LISTENING C1 **READING** C1 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Other skills

Python (NumPy, Pandas, Scikit-learn, Keras, Pytorch, Lightning)

Signal Processing

R

Matlab

Supervised Learning (Linear and logistic regression, Decision trees, SVM, Naive Bayes)

Unsupervised Learning (K-Means Clustering, PCA)

Deep Learning

Machine Learning

Big Data

Web Scraping

SQL

RESEARCH ACTIVITY

Deep Learning Approaches for Alcohol Impairment Detection
[11/2022 – Current]

Optimism Prediction and Concordance Analysis: Unraveling Demographic Correlations through Classification Modeling and Feature Importance Algorithms
[02/2022 – 07/2022]

Comparing Machine learning models performance to predict company's travel insurance sales
[10/2021 – 01/2022]

Management of the company's financial resources in a changing exogenous environment
[09/2019 – 07/2020]

Methods and models for predicting bankruptcy of an enterprise
[02/2019 – 07/2019]