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Can Ali Ateş

Artificial Intelligence Engineer

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EXPERIENCE

HAVELSAN — AI Engineering Intern
March 2024 - Current

- I'm currently working on a **Time-Series Forecasting Framework** by integrating state-of-the-art models such as **TSMixer, DLinear**.

DATASCOPE — AI Engineer
Sep 2023 - Feb 2024 (6 month)

- **ARIMA, SARIMA, SARIMAX,** and **Prophet** models are utilized for time-series forecasting
- **Optuna** framework is used for hyperparameter optimization
- Forecasting **performance improved by an average of 60%** in the cement, electricity, insurance, technology, and tire sectors.

HAVELSAN — AI Engineering Intern
June 2023 - Aug 2023 (2 month)

- **Random Forest** and **XGBoost** models are utilized for classification.
- **RocketRegressor**, **CNNRegressor**, and **ResNetRegressor** models are utilized from the **sktime** library for time-series forecasting
- **Optuna** framework is used for hyperparameter optimization
- Gained experience in **predictive maintenance** by achieving **15% RMSE** and **84% accuracy** on NASA's Turbofan Jet Engine dataset

TAI — AI Engineering Intern
Nov 2022 - May 2023 (7 month)

- **K-Means**, **DBScan**, and **Isolation Forest** models are utilized for anomaly detection on sensor data
- Tasked with data labeling to help Computer Vision team

GITEK VISION — AI Engineering Intern
July 2022 - Sep 2022 (3 month)

- An algorithm is developed for creating dataset batches from scratch for industrial screw detection
- **YOLOv3** model is utilized to enable fruit detection

TAI — AI Engineering Intern
Dec 2021 - May 2022 (6 month)

- Gained experience in Reinforcement Learning by training and fine-tuning **CartPole-v0**

TECHNICAL STACK

Programming Skills

- **Python** stands as my primary, with knowledge in **Java**, **SQL**, and **C++**
- Proficient in **Pandas**, **Numpy**, **Scikit-Learn**, **Seaborn**, **Matplotlib**, **OpenCV**, and **PyQT5**
- Currently enhancing in **PyTorch**, **TensorFlow**, **Keras, Sktime, TSLib, and TSAI frameworks**

Developer Kit

- **PyCharm**, **VS Code**, **Spyder**, **Jupyter Notebook & Lab**, and **Google Colab** environments
- **QT Designer**, **YoloLabel**, **Cascade Trainer GUI** are used as helper tools for projects

PROJECTS

Smart Fridge (Graduate Project)

A pipeline that contains YOLOv8-S and ResNet-101 is utilized to detect fruits/vegetables and decay percentage to qualify the food waste. The project funded by European Union and conducted with Food Eng. Department.

Surfing the Bitcoin Waves

Machine Learning, Deep Learning, and Traditional Time-Series Forecasting techniques are utilized to investigate influence of various trader types such as whales, bots, and top traders over the Bitcoin market.

Industry Cycles App

ARIMA, SARIMAX, and advanced time series forecasting models are utilized to forecast year-over-year growth of different industries for one or two quarters further.

NeuroDeepAdvisor

The project utilizes **YOLOv5 - YOLOv8 models** and a custom **CNN architecture**. It aims to create a **real-time decision support system** for detecting Alzheimer's disease levels from MRI images and delivering pertinent information to doctors via a **user-friendly GUI**.

Project LEAFS

The project based on incorporating **Data Mining**, **Computer Vision**, and **Deep Learning**. The primary aim of this project is to provide lecturers with valuable insights on lecture efficiency by detecting students' attitudes with **YOLOv5** using a **user-friendly GUI**.

EDUCATION

HACETTEPE UNIVERSITY

Artificial Intelligence Engineering

Bachelor of Science, BSc

Sep 2020 - Current

GPA: 3.73/4.00

COURSEWORK

- Elements of Data Science
- Principles of Artificial Intelligence
- Foundations of Machine Learning
- Fundamentals of Blockchain
- Fuzzy Logic
- Intro. to Data Mining
- Intro. to Deep Learning
- Intro. to Human-Robot Interaction
- Intro. to Computer Vision

CERTIFICATES

- Standford University, Machine Learning Specialization
- Standford University, Deep Learning Specialization
- Vanderbilt University, Prompt Engineering Specialization

LANGUAGES

- Turkish, Native
- English, Professional
- German, Beginner

CAPABILITES

- Research Proficiency
- Continuously Learning
- Multidisciplinary Working
- Critical Thinking
- Problem Solving
- Adapting to New Technologies

SOCIETY

- Hacettepe AI Club
  - Corporate Affairs Manager
  - Supervisor
  - Member
- ACM Hacettepe
  - Member