

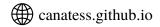
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EXPERIENCE

HAVELSAN — Candidate Engineer

March 2024 - Current

 I'm currently working on a Time-Series Forecasting Framework by integrating state-ofthe-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 - June 2024

GPA: 3.76/4.00

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
 - O Corporate Affairs Manager
 - Supervisor
 - Member
- ACM Hacettepe
 - Member