UĞUR KAVAL

Computer Engineer

ugurkaval.com

Turkey, Izmir • ugurkvlofficial@gmail.com • + 90 (553) 844 29 68 • linkedin.com/in/kavalugur • github.com/kavalugur

EXPERIENCE

SELF-EMPLOYED   **Izmir, Turkey**

Founder, TradeAIBOT   **05.2024 - Present**

- For the past year, I have been working as the founder of TradeAIBOT, an advanced algorithmic trading platform. Developed in Python, this system leverages real-time data from the Binance API to create and optimize trading strategies using deep learning and neural network models. By integrating over 500 technical indicators and algorithms, I designed a robust infrastructure for signal generation, dynamic trade management, and comprehensive performance analysis. I deployed three autonomous trading bots on a dedicated server, ensuring their continuous and efficient operation without exceeding API rate limits. Through meticulous backtesting and analysis using libraries such as Pandas and TA-Lib, I achieved a remarkable profitability rate exceeding 70%.

  Technical Achievements:
  - Developed three autonomous trading bots and coordinated them on a central server to ensure 24/7 uninterrupted operation.
  - Optimized API rate limits to maintain continuous data flow and transaction execution.
  - Utilized Pandas, TA-Lib, and TensorFlow/PyTorch libraries for performance analysis and risk management.
  - Validated trading strategies through comprehensive backtesting and forward testing.

  Financial Performance:

  - Achieved consistent profitability exceeding 70% over the last three months.
  - Conducted detailed performance analysis and optimization using data from over 1,500 trades.
  - Developed sustainable trading strategies through risk-reward ratio optimization.

KIPRAS   **Izmir, Turkey**

Software Developer   **09.2024-11.2024**

- User-Friendly Web Designs: Using Next.js and React, I developed responsive interfaces that are both aesthetically appealing and performance-focused.
- Server-Side Development: Leveraging Node.js, I built scalable, fast, and reliable backend solutions that enhanced overall system performance.
- Technology & Innovation: I continuously researched and integrated current industry trends into projects, delivering innovative web solutions.

WGUARD   **Istanbul, Turkey**

System Engineering Intern   **06.2023-09.2023**

- Worked on SQL database management and network structures within the field of systems engineering.
- Optimized data management processes and improved database performance through SQL queries.

- Conducted analyses on network security, protocols, and infrastructure design to enhance the security and efficiency of the network structure.

MULTICODE   **Istanbul, Turkey**
Artificial Intelligence Intern   **06.2022-08.2022**
- Literature research was conducted for various projects in the field of artificial intelligence, focusing on data preprocessing and model development processes.
- Models were integrated using technologies such as Python and TensorFlow, and performance evaluations were conducted.
- Strategic insights were developed in technical areas such as software development, algorithm design, and user experience, contributing to the overall success of the project.

EDUCATION

KONYA TECHNICAL UNIVERSITY   **Konya, Turkey**
Computer Engineering GPA: 3.54 out of 4.0   **2020-2024**

Suphi Koyuncuoglu Anatolian High School   **Izmir, Turkey**
Web Programming   **2015-2019**

TECHNICAL SKILLS

Programming Languages/Tools: C, Python, Java, SQL, TensorFlow, OpenCV, PyTorch, Keras
Operating Systems: Linux/UNIX, Debian, Ubuntu, ROS, Google Cloud, VMware, Microsoft Azure
Skills: Object Oriented Programming, Design Pattern, Multi-threading, GitHub, Image Processing, Computer vision, Artificial Intelligence, Data Preprocessing, NLP, NodeJS, NextJS, Flutter

PROJECTS

- **Portfolio Tracking Application:** This is a detailed mobile application that fetches real-time prices for stocks and cryptocurrencies and compares the percentage increases and decreases of portfolio assets based on their cost prices. Thanks to real-time data streams, users can track the current values of their investments, profit/loss percentages, and portfolio performance through dynamic charts and statistical tables. The application is built using Flutter and Firebase.

- **BOTAI Spot and Leverage Trading Binance Bot:** An automated trading bot has been developed for the Binance platform that performs spot and leveraged trading. Using Python programming language and the Binance API, this bot analyzes market data to automate buy and sell transactions. Additionally, it allows users to optimize their portfolio management, thereby enhancing the effectiveness of their investment strategies. This system provides users with the ability to quickly adapt to market conditions and make data-driven trading decisions.

- **AI Supported Stock and Cryptocurrency Prediction Application:** Designed a mobile application leveraging artificial intelligence to predict stock and cryptocurrency prices using GRU and LSTM models. Integrated real-time data and technical indicators to enhance prediction accuracy, optimizing R2, MAE, and MSE values to achieve an 88% accuracy rate.

- **YOLO Based Real Time Image Processing and Classification Tool:** Developed an image processing tool using the YOLO object detection model for real-time classification with an average detection speed of 25ms

per frame. Reached an object detection accuracy of 92% across diverse datasets, reducing processing time by 30% compared to previous methods.

- **NLP Based Sentiment Analysis Model:** Built a sentiment analysis model utilizing Natural Language Processing (**NLP**) techniques, achieving 85% accuracy in classifying sentiments. Implemented data preprocessing and feature extraction techniques that reduced model training time by 20%, processing over 10,000 text samples to fine-tune the model.

CERTIFICATIONS

- BTK Academy (2024): Machine Learning with **Python**
- BTK Academy (2024): Version Controls: **Git** and **GitHub**
- Udemy (2023): Python: Data Science and Machine Learning

AWARDS

- **High Honor Certificate Published by Konya Technical University Jun 2022**
  It was given by Konya Technical University, Faculty of Engineering and Natural Sciences, with a semester average of 3.72 at the end of the spring semester of the 2021-2022 academic year in the Computer Engineering department of our faculty.

PERSONAL INFORMATION

Language Proficiencies: Turkish - Native or bilingual proficiency, English - Intermediate proficiency Personal **Characteristics:** Analytical thinker, Adaptable, Strong decision maker, Complex problem solver, Innovative.
Other Experience: KTÜN Robotics Automation Control Research Lab (RACLAB) – Computer Vision Engineer
President Hobbies: Swimming, Investing, Cryptocurrency Research
Driver's License: M - B1- B – F   **Date of Birth:** 25 / 10 / 2000   **Other**: No travel restrictions