Abdurrezzak Ekidi
Software Engineer Intern
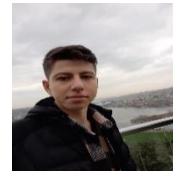
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Education

Malatya Turgut Özal University	Malatya,Turkey	B.Se. in Software Engineering ,2026

Internship Experience

TÜBİTAK - Ankara, Turkey
TÜBİTAK 1001 Undergraduate Scholarship - Artificial Intelligence Researcher - October 2024 - Present
- Project: AI-Powered Management of Conflictual Language in Disaster Situations • Collaborated with Fırat University, Munzur University, Turgut Özal University, and İnönü University to develop an AI-based system.
- Focused on Natural Language Processing (NLP), data analysis, and data visualization.
- Analyzed disaster-related social media and news texts to detect conflictual language.
- Performed data cleaning, preprocessing, and model training for text classification.
- Designed strategies to mitigate conflictual language and improve crisis communication.

DGH Ar-Ge Yazılım Enerji - Malatya, Turkey
 Intern - July 2024 - September 2024
- Worked on Exploratory Data Analysis (EDA) and data preprocessing.
- Developed data visualizations using Seaborn and Matplotlib.
- Gained hands-on experience in data analytics and machine learning pipelines.

Projects

Health Center Management System (Desktop Application)

Developed a desktop application using JavaFX and SQL to manage health center operations. The system includes modules for user registration, login, personal information management, appointment scheduling, and staff-side patient and appointment management.
Technologies Used: JavaFX, FXML, SQL, MVC

Data Analysis and ML Applications (Advertising & Hitters Datasets)

As part of this project, I conducted comprehensive data analysis and developed predictive models using the Advertising and Hitters datasets. The workflow began with meticulous data preprocessing, including handling missing values, applying necessary transformations, and preparing the data for modeling. Following the preprocessing phase, I implemented a variety of machine learning algorithms to explore both linear and nonlinear relationships within the data. These included traditional linear regression, multiple linear regression, and advanced regularization techniques such as Lasso, Ridge, and ElasticNet. To further enhance model performance and capture complex patterns, I also employed tree-based algorithms like Decision Trees, Random Forest, Gradient Boosting Machines (GBM), XGBoost, and LightGBM. Throughout the project, I emphasized model evaluation and comparison, using data visualization techniques to interpret and communicate the results effectively. The entire process was executed using Python and widely adopted data science libraries.

Cafe order management application (Mobile)

Developed a mobile application to manage orders in cafes. Waiters input customer orders by table, which are sent to the kitchen for preparation. The cashier uses the app to process the payment after the customer provides their table number.
Technologies Used: C#, Asp.Net, T-SQL, Flutter, 3-Tier Architecture

Text Classification in Turkish News Using BERT

In this project, I developed a text classification model on a dataset of Turkish news headlines and content. The dataset contained real examples from categories such as politics, sports, economy, health, and technology. After preprocessing steps like lowercasing, punctuation removal, and tokenization, the data was used to fine-tune a pre-trained Turkish BERT model.
The model achieved high accuracy in assigning the correct category to each news item. This project strengthened my experience in Turkish natural language processing tasks.
Technologies Used: Python, BERT, Scikit-learn, Pandas, NLTK, TextBlob, NLP

Technical Skills

- C++ , Java , Python
- SQL , T-SQL , MSSQL
- 3-Tier Architecture , .NET Framework , Spring Boot
- RESTful APIs , FX
- ML , NLP
- OOP & Data Structures
- SOLID Principles

Languages

- Arabic: Native
- Turkish: Near-native proficiency
- English: Intermediate

Courses

Some of the courses I took (programmingadvices.com)
- OOP
- Data Structures
- RESTFUL APIs
- Python A-Z™: Data Science and Machine Learning
- Introduction to Programming with Java
- Learning SQL Through Practical Applications