Derda Kaymak

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EDUCATION

TOBB UNIVERSITY OF ECONOMICS AND TECHNOLOGY | BSc in Computer Science | GPA: 3.63
September 2017 – May 2022 (Projected) | Ankara, Turkey

WORK EXPERIENCE

HARMONI TECHNOLOGY&SOFTWARE | Co-Founder
November 2020 – Present

- Developing mobile and web based games and applications (e.g. e-commerce application) for companies.
- Mobile games at application stores - over 75,000 downloads.

JOTFORM | Software Engineer Intern
May 2021 – September 2021 | Ankara, Turkey

- Did improvements at JotForm Tables (one of the company's products) with React.js front-end and PHP back-end.
- Completed under the supervision of the team leader.

HAVELSAN | Software Engineer Intern
September 2020 – December 2020 | Ankara, Turkey

- Did researches about the features of universal autonomy which is the part of a large scale project of the company.
- Worked in the field of object detection for autonomous vehicles.

ROKETSAN | Software Engineer Intern
January 2020 – March 2020 | Ankara, Turkey

- Did business intelligence applications with QlikSense as desicion support systems for in-house project management.
- Completed under the supervision of the software team leader.

RESEARCH PROJECTS

Intelligent Disease Prediagnosis System using association rule mining

- A research project conducted under the supervision of Prof. Reda Alhajj and Assoc. Prof. Tansel Özyer, with a collaboration of two group members.
- Aims to determine a preliminary diagnosis according to the symptoms of the patients before going to the doctor and to avoid wasting time by directing them to certain departments of the hospital based on these results.
- Includes search for frequent itemset and association rule learning on Python and Flask.

License Plate and Traffic Sign Recognition Model for Autonomous Vehicles

- A research project conducted under the supervision of Assoc. Prof. Tansel Özyer, with a collaboration of three group members.
- Focuses on providing a traffic object detection and recognition system for Advanced Driver Assistance Systems.
- Includes YOLO Real Time Object Detection and transfer learning on Python and C#.

Where to Live Recommendation System based on pareto efficiency

- A research project conducted under the supervision of Prof. Reda Alhajj and Assoc. Prof. Tansel Özyer, with a collaboration of two group members.
- Aims to intelligently rank and recommend the best places to live according to people's diseases and criteria based on a survey.
- Includes pareto analysis on C# and web development on ASP.NET.

COURSE PROJECTS

Search and Rescue Operation Management System

- As a graduation project, a management system was developed that enables team formation and coordination for search and rescue operations initiated after disasters. This system makes recommendations to the manager using location-based data and provides efficient use of workforce and resources. It also has notification, equipment request and in-team communication features.

Hate Speech Detection in Social Media

- With applying various types of preprocessing on the social media data, combination of different neural network models (CNN + BiLSTM) and transformer models (BERTurk and RoBERTa) were implemented and the results were compared.

Character Recognition from Blurry images

- Includes image preprocessing for blurry license plates and character recognition on YOLO Real Time Object Detection. (Continued as research project)

CV Generation System using web crawling and NLP applications

- Keyword extraction by using web crawling on Python and NLP text classification based on the BERT pre-trained model were performed to generate a CV for a given person.

SIIM-ISIC Melanoma Classification

- With the given dataset, CNN model, transfer learning with different deep learning architectures such as VGG16, InceptionNetV3, Xception and ensemble learning with logistic regression models were implemented for the detection of melanoma (skin cancer), and the results were compared.

SKILLS

- Data Science
- Business Intelligence
- Machine Learning
- Programming (Python, C, C#, Java, PHP)
- Web Development (React, Javascript, HTML, CSS)
- Mobile Development (Flutter, Dart)
- Game Development (Unity)
- Database (MySQL, MongoDB)
- CAD (AutoCAD, SolidWorks)