

Alperen GÜLÜNAY

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Technical Skills

PL: Python, C#
DB: MySQL, MongoDB
IT: Git, Docker, Unix
AI: CNN, Computer Vision
Web: MERN Stack, Asp.Net MVC
Lang: English (Upper-Intermediate Level)

Projects

Enhanced B+ Tree Algorithm

- Used Technologies: C#.
- Optimized the B+ Tree algorithm, commonly used in the indexing structure of many database systems, to use fewer nodes during the new data insertion stage.
- [Project Github page](#)

Classifying Turkish Music Mel Spectrograms with CNN

- Used Technologies: Python, Librosa, TensorFlow, Keras
- Classified Turkish music into 10 genres, a novel approach not found in the literature. Librosa and Matplotlib were utilized to convert music into images, while deep learning techniques were employed for model training.
- [Project Github page](#)

Cryptocurrency Strategic Simulation and Analytical Review

- Used Technologies: C, Python, Pandas, NumPy
- Over the last 4 years I have created a platform that comprehensively analyzes various selling strategies and simulates the automated trading experience using one-second changes in cryptocurrency data.

Experience

Erna-Maş Inc. Software Intern

June – 2022

- I worked on troubleshooting and adding new features to the company's in-house communication, data storage, and analysis extraction application built with Asp.Net MVC Web structure.
- In this project, I worked with ASP.NET MVC, C#, JavaScript, jQuery, HTML, and CSS technologies.
- Summary of contributions to the projects: URL information encoding, dynamic data graph feature for the quality control unit, sidebar page history bug fixing, customized application for the barcode machine.

Certificates

DeepLearning.AI	Neural Networks and Deep Learning
DeepLearning.AI	Structuring Machine Learning Projects
DeepLearning.AI	Introduction to Machine Learning in Production
IBM	Machine Learning with Python
IBM	Statistics for Data Science with Python

Education

KIRIKKALE UNIVERSITY

Computer Engineering, Bachelor's Degree

Kırıkkale, Turkey

2018 – (Note: 2.89/4)

Skills and Interests

Unity - I utilize Unity to visualize some of my artificial intelligence projects.

Participating in Debates - Second Place in the 2022 Turkey Debate League Kırıkkale Provincial Championship

Chess - I am a licensed player and enjoy participating in tournaments occasionally.