Cafer Osman YILDIZ

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Skills

Languages: Python, SQL

Technologies & Tools: Tensorflow,Keras,Pytorch,Opencv, Numpy,Pandas,Seaborn,Matplotlib,Sklearn,Anaconda,Cognos,Oracle ODI,Sqlite,Google Cloud Platform

Work Experience

Intellica, Istanbul May 2023 - Jul 2023

Data Analyst | Intern

- Led the ETL process, extracted metadata from banking data. Generated fact and dimension tables. Eliminated empty and unusable entities while harmonizing the necessary entities.
- Migrated processed data to Cognos for data visualization, employing a Star schema when connecting the fact and dimension tables. Developed queries with a list of filters in backend.Utilized various charts including pie, bar, and line, along with a prompt screen for enhanced interactivity.
- Oracle ODI, Toad, DWH, Cognos, SSIH, MySQL, Superset.

Dekare, Nevsehir Nov 2021 - Feb 2023

Software Development Engineer | Part-time

- Developed an OCR system for MRZ codes accessible on both web and mobile platforms. Enabled recognition for all MRZ types, allowing for the processing of driver licenses, ID cards, and passports. The application is successfully serving to the demand of tourist hospitality services.
- Collaborated on the development and customization of remote access software for both desktop and portable devices within a team. Worked on ensuring compatibility, with a particular focus on MacOS 11 and MacOS12.
- Tesseract, Python, Opencv, Codeigniter, Handlebars.js, Homebrew, Bash.

Education

Nevsehir University Sep 2021 - Jun 2025

B.E. in Computer Science and Engineering ***GPA: 3.2/4***

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Computer Networks, Machine Learning, Data Mining, Advance Data Structures and Algorithms, Information Retrieval, Image Processing

Project Work

- **Human Density Detection (2024):** Developed a deep learning model to detect human density in Cappadocia's touristic areas, optimizing environmental planning.Implemented Yolov8 model for detecting small objects. Created a dataset for regional special marks, resulting in an improvement of the model's F1-recall scores by up to 60%. Used Opencv, Collab, Pytorch, Yolov8, Python.
- **Pumice Brick Optical Defect Detection (2023):** Engineered optical detection systems to automate the facility's production line. Reduced production time from 16 seconds to 12 seconds. Over 90% accuracy, the system enables the factory to track each brick, monitoring their defect status on screen. All counted product records are being integrated into the ERP/CRM systems for efficient inventory management. Used C++, Opencv, Python, Tensorflow, Matplotlib.
- **AI Transportation Solutions (2023):** Applied Object-Detection on all vehicles within traffic, labeling 60,000 objects (car, bus, van, pedestrian, motorcycle). The model then trained for 300 epochs to minimize error values. Subsequently, fine-tuned the training model based on plot values. Achieved a trust value approaching 80%. This project developed for the Teknofest 2024 competition. Used Tensorflow, Yolo, Opencv, Cuda, Pytorch, Anaconda, Labelimg.

Languages

- **English :** Advanced
- **German :** Intermediate
- **Turkish :** Native