BERKAN YAPICI

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SKILLS

Technical Skills: Python, GCP, TensorFlow, Pandas, Scikit-learn, XGBoost, Keras, Flask, Qlik Sense, SQL, Seaborn, Matplotlib, Java, Pydicom, JavaScript
Languages: English IELTS C1, French DELF B2, Turkish Native

WORK EXPERIENCE

PRICER
Junior Data Scientist (GCP, Python, SQL, Qlik Sense, Pandas) **2023 Feb - 2024**

- Implemented and optimized data processing workflows using Google Cloud Functions.
- Developed and maintained data pipelines leveraging Google BigQuery for efficient data storage and retrieval.
- Applied advanced statistical analysis and machine learning models to extract meaningful insights from large datasets.
- Visualized the findings with Qlik Sense dashboards.

OMVISION
Co-Founder (Python, TensorFlow, Keras, Flask, JavaScript) **Sep 2021 – Aug 2022**

- Crafted data pipelines for preprocessing and feeding the neural networks.
- Further developed different types of network architectures for binary, multi-class and multi-label classification for intracranial hemorrhage.
- Constructed a web application using flask at backend and JavaScript at frontend.

PIMILAB
Intern (ITK-SNAP, Pydicom) **Jul 2021 (1 month)**

- Worked on manual segmentation of MRI heart images.
- Learned about the data preparation phase for segmentation tasks in medical field.

HAVELSAN
Intern (Scikit-learn, Pandas) **Jul 2020 (1 month)**

- Discovered Bosch production line performance dataset with pandas.
- Applied different imputation techniques using scikit learn.
- Observed the results of different imputation techniques on model's performance.

EDUCATION

KTH Royal Institute of Technology **2022 – ongoing**
MSc. Machine Learning
Istanbul Technical University (GPA 3.42) **2016 – 2021**
Electronics and Communication Engineering

AWARDS & GRANTS

TUBITAK BIGG 2021
Won the Individual Young Entrepreneur program BIGG that aims to boost innovation-based technological infrastructure in Turkey. Supported for early incubation of the tech startup OMVISION that focuses on the application of deep learning in healthcare industry.

PROJECTS

Intracranial Hemorrhage Detection (Python, TensorFlow, Keras, Pydicom)

- Implemented preprocessing functions for medical images using pydicom and numpy.
- Created different CNN architectures with TensorFlow to detect hemorrhage.
- Compared the performances of SOTA CNN architectures like VGG16, ResNet50 and Xception.

Camera Model Detection (Python, TensorFlow, Keras)

- Produced a deep learning solution to detect the camera model from the given photo.
- Built RemNet CNN using TensorFlow for camera model identification.
- Observed the effect of regularization, accuracy increased to %85 from %80.

Mood Prediction from EEG Signals (Python, XGBoost, Scikit-learn)

- Collected EEG signals produced by a commercial muse headband.
- Trained ensemble methods to classify 3 moods, negative, positive and neutral.
- Model deployed to arduino to predict the mood.

Music Genre Classification (Python, Librosa, Scikit-learn, XGBoost, Matplotlib)

- Worked on GTZAN genre collection to classify music genres from 1000 audio tracks each 30 seconds long.
- Used librosa to create spectrograms and get features from audio files.
- Trained different machine learning models and compared their performances.

Churn Turknet Dataset (Python, Pandas, Scikit-learn, XGBoost)

- Detected customers, who will likely cancel their membership at the end of the month.
- Implemented pipelines for preprocessing and training with scikit-learn for imbalanced churn dataset.
- Evaluated confusion matrix and F1 scores of the best performing models.