Faizan Aslam

Data Science Student (Magdeburg, Saxony Anhalt)

⌂ Portfolio   ◉ Github   ✉ faizanaw@gmail.com   ☎ +49 1520 5855671

OTTO VON GUERICKE UNIVERSITÄT |Teaching Assistant (Hiwi)
October 2021 – March 2022 | Magdeburg, Saxony Anhalt.

- → Assist students in practical exercises and organisation of course and exercises at FIN OVGU Magdeburg.
- → Organising research seminars and conducting didactic activities in the Group.

Experience

NISHAT PVT LTD. | Junior Data Analyst
July 2019 – February 2020 | Lahore, Pakistan

- → Developing implementing & deploying reliable machine learning pipelines and improve modelling infrastructure and features.
- → Extension of existing web features backend applications with Django and PostgreSQL.
- → Working with other engineers and analysts for collecting data from the web and creating dashboards tusing Plotly/Dash to visualise KPIs.

Projects

CNN VS CV-CNN FOR BRAIN TUMOUR CLASSIFICATION- SEMINAR PROJECT
|Pytorch, Scikit-Learn, OpenCV
Seminar at Data and Knowledge Group, OVGU

- → Using state-of the-art 3D CNN residual networks for classifying HGG(high grade gliomas) LGG(low grade gliomas) using volumetric MRI images.
- → Comparison of complex valued CNNs (CV-CNN) working with complex image in kspace against real-valued CNN working with magnitude images.

OBJECT DETECTION AND FUSION IN A CAMERA NETWORK | OpenCV, Linux
Scientific Project at Autonomous Multi-Sensor Systems Group, OVGU

- → Five raspberry pi powered cameras mounted on a frame aimed at the ground are employed to track an object(using Object Detection Algorithms) which is moving in a circular path at a constant angular velocity at regular time intervals.

CONJUNCT CHAT ROOM APPLICATION | Django, HTML, CSS, Sqlite

- → A web application for collaborative education using Django/SQLite. Users can form rooms with specific educational topics with many participants and interact with each other through messages.

FALUST SEARCH ENGINE APPLICATION FOR WIKIPEDIA PAGES | Flask, Elasticsearch, Tailwind CSS, HTML

- → Crawled a custom (sub-set) of 1000 Wikipedia(English) pages to create the searchable data-set, parsed and indexed the crawled Wikipedia topics in Elasticsearch.
- → A web application for visualising result clustering using Carrot API in Flask.

TWITTER SENTIMENT ANALYSIS ON KAGGLE DATASET | Dash, Plotly, NLTK, Spacy, Matplotlib

- → Performing EDA, Feature Extraction and visualising Twitter dataset. Performing Sentiment Analysis using Question Answering NLP approach.

Skills

PROGRAMMING

Proficient:
Python • Javascript • R • SQL • CSS • HTML •

Familiar:
Java • Shell

LIBRARIES/FRAMEWORKS

Machine Learning/Data Science:
TensorFlow/Keras • Pytorch • OpenCV • Scikit-Learn

Backend/Frontend:
Django • FastAPI • Postgres • MySQL • Vue.js • Node.js

TOOLS/PLATFORMS

Git • Heroku Wordpress • Docker

Education

OTTO VON GUERICKE UNIVERSITÄT
Master in Digital Engineering
Apr 2021 - Present | Magdeburg, Saxony Anhalt
Faculty of Informatik

PAKISTAN INSTITUTE OF ENGINNERING AND APPLIED SCIENCES (PIEAS)
Bachelor in Mechanical Engineeering and Engineering
September 2015 - May 2019 | Islamabad, Pakistan

Coursework

GRADUATE
- Advanced Topics in ML
- Deep Learning for Computer Vision
- Visual Analytics
- Data Mining
- Knowledge Engineering Digital Humanities