

Shaheer Ahmad

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EDUCATION

Islamia College Peshawar
Bachelor in Software Engineering

Sept 2021

PROFESSIONAL EXPERIENCE

Junior Machine Learning Engineer
Cplus Soft Pvt Limited, Islamabad

Oct 2020 - Nov 2023

Content-Based Chatbot

Developed a sophisticated chatbot that operates based on the content of provided files. Users can submit documents, and the chatbot uses Langchain for natural language understanding and OpenAI's language model for question answering. It indexes documents using Vector Database for efficient retrieval.

Project Associate
DGIPR, KP Govt

July 2022 - July 2023

Accomplishments

- Spearheaded a social media influencer project for the DGIPR, Government of Khyber Pakhtunkhwa, amplifying awareness and resolving public issues
- Collaborated with Govt officials & stakeholders, actively addressing public concerns & fostering meaningful connections.
- Managed & curated compelling content across multiple social media accounts, captivating and expanding the audience base
- Analyzed and evaluated social media data, fueling campaign optimization and measuring the impact of initiatives.

Computer Vision Engineer
NCAI UET, Peshawar

Oct 2021 - June 2022

Fire Detection System using Yolov5

- **Data Collection:** Gathered data from different platforms and curated a dataset with annotated images using the label-img tool.
- **Data Preprocessing:** Preprocessed the raw data using Python libraries.
- **Model Training:** Trained Yolov5 model with customized hyperparameter files, and optimized it for accurate fire detection.
- **Implementation:** Utilized Opencv for real-time video surveillance, enabling precise localization of fires.

License Plate Detection and Recognition System using Yolov5

- **Data Preprocessing:** Cleaned raw dataset to make a model ready preprocessed dataset using Python libraries. Data annotation was performed using the Label-Img tool.
- **Model Training:** Trained Ultralytics Yolov5 and Mobilenet SSD both, in order to compare and get the better model with high accuracy and high fps speed.
- **Implementation:** Real-time localization was done using Opencv and recognition with Pytesseract.

Land-Sliding Classification System using CNN

- **Data Collection:** Gathered data from different platforms and curated a dataset.
 - **Data Preprocessing:** Preprocessed the raw data using Python libraries.
 - **Model Training:** Trained CNN model, and optimized it for accurate land sliding classification.
 - **Implementation:** Utilized Opencv for real-time video surveillance.
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ACADEMIC PROJECTS

Stagnant Water Detection Using Deep Learning

- **Data collection and data preprocessing:** Engineered a high-quality dataset with "Apeer" for segmentation annotation from google images.
 - **Model Training:** Trained a UNET segmentation model using the annotated dataset for accurate detection of stagnant water.
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PRACTISE PROJECTS

Data Analysis of ODI Cricket WorldCup 2023

- **Approach:** Following a structured methodology, I kicked off with data reading, data reduction, feature engineering, creating features, data cleaning, wrangling and exploratory data analysis.
 - **Language and Tools:** Python libraries like pandas, matplotlib, and seaborn were my trusted companions throughout the analysis, ensuring an efficient process.
 - **Outcome:** The analysis uncovered fascinating details about all batting stats, all bowling stats, player stats, and matches stats.
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PROFESSIONAL CERTIFICATION

Artificial Intelligence Certification

2021-2022

Kamiyab Jawan Program | NCAI UET, Peshawar

Data Analytics and Business Intelligence

2023

Digiskills

SKILLS

Technical Skills

Language and Tools: Python, PowerBi, Flask, SQL

Packages: Tensorflow, Keras, Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib, Statsmodels, Seaborn, OpenCV

Key Skills

Machine Learning Algorithms, Deep Learning Algorithms, Computer Vision, Clustering & Classification Data Visualization, Data Wrangling, Predictive Analysis, Data Analytics, Model Training, and Deployment