Fahim Sabir

Aspiring AI/ML Engineer

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SUMMARY

AI professional with hands-on project experience in Python, Machine Learning, Deep Learning, and NLP. Skilled in designing and implementing AI models, analyzing data trends, and automating processes. Eager to leverage strong technical skills and a passion for innovation to contribute to a dynamic, growth-focused team.

EDUCATION

Bachelor of Science in Computer Science University of Science & Technology, Bannu (3.5 CGPA) **2020-2024**

EXPERIENCE

AI/ML Engineer Intern
NCAI (National Center of Artificial Intelligence), NSTP, NUST
July 2024 – September 2024

- Conducted **data analysis**, **preprocessing**, and **feature engineering** to extract meaningful insights and improve model input quality.
- **Built**, **tuned**, and **evaluated** machine learning models to ensure optimal performance and accuracy.
- Collaborated with **cross-functional** teams to integrate AI models into **web applications** for seamless functionality.
- **Deployed** models on **AWS** platforms, ensuring scalability, stability, and performance in cloud environments.

AI/ML Engineer Intern
Horizon Tech Services NSTP, NUST
October 2024 – December 2024

- Build and maintain robust **pipelines** for developing **end-to-end machine learning models**, ensuring efficiency and scalability throughout the process.
- Collaborate closely with **cross-functional teams** to seamlessly integrate machine learning models into **web applications**, enhancing user experience and functionality.
- **Track experiments** and **deploy** models on **AWS cloud**.

Projects

Google Chrome Plugin for YouTube Comment Sentiment Analysis

- Built an **End-to-End Google Chrome Plugin** to analyze and visualize YouTube video comments.
- Enabled sentiment analysis with **Positive**, **Negative**, **Neutral** results and a **word cloud** for frequent words.
- **Simplified audience insights** for content creators by automating comment analysis.
- Integrated **DVC**, **MLFlow**, and **Docker** for versioning, tracking, and seamless deployment.
- Deployed on **AWS EC2**, ensuring global accessibility for users.

Emotion Detection Using CNN

- Built a **CNN-based emotion detection system** using pre-trained models like **VGG-16 and ResNet.**
- Achieved **80% accuracy** in identifying emotions from facial expressions by leveraging **transfer learning techniques**.
- Improved model performance through **fine-tuning** and optimization of network architecture for enhanced prediction accuracy.

Technical Skills

AI & Machine Learning

Python | Data Visualization | Supervided Learning Algo. | Unsupervided Learning Algo. | ANN, CNN, RNN, LSTM, GRU | Feature Selection and Extraction | Data Analysis | Feature Engineering

Programming Languages

Python | SQL

Python Packages & Frameworks

Scikit-Learn | TensorFlow | PyTorch | Matplotlib | Seaborn | Plotly | Numpy | Pandas | Keras | Flask | Streamlit

NLP & Generative AI

Transformer Architecture | Hugging Face | NLTK | LangChain | Vector Databases

MLOps Cloud Based Web-Services

AWS SageMaker | EC2 Instance | S3 Bucket | Git & Github Actions | Dagshub | DVC | MLflow

Platforms

Jupyter Notebook | Visual Studio Code | Google Colab | Github | Docker | Kaggle | Streamlit cloud