Mohsin Shah

(Data Science, Machine Learning)

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About me

I am a Recent Computer Software Engineering graduate with a strong passion for data science and machine learning. I completed IBM courses with hands-on experience in supervised/unsupervised learning, NLP, TTS, and deep learning using CNN models. I am seeking a junior data scientist or machine learning engineering role, or an internship to develop skills further and contribute to innovative projects.

Education

BSc Computer Software Engineering
University of Engineering and Technology Mardan 2018 - 2022
FSC Pre-Engineering
Government Degree College Mingora 2015 –2017

Technical Skills

- **Data Science:** Pandas, Numpy, Matplotlib, Seaborn
- **Natural Language Processing:** NLTK, TF-IDF, TTS
- **Language:** C++, Python, SQL
- **Machine Learning:** Scikit-Learn, Tensorflow, Keras
- **Data Base:** MYSQL

Exploratory Data Analysis(EDA), Data Visualization, Data Cleaning, Model Deployment (Supervised and Unsupervised), CNN (Resnet50, VGG, Xception, etc.)

Experience

Machine Learning Internship (Ezitech Institute) 03/05/2024 - 09/08/2024

- Conducted Exploratory Data Analysis (EDA) and utilized Scikit-learn for various algorithms.
- Used TensorFlow and Keras for building and training CNNs, including pre-trained models.
- Worked on projects: cotton plant disease prediction, brain tumor detection, dog vs. cat classification, and Dubai properties dataset ETL.

Projects

Smart Doorbell (FYP) (IOT)

- **Description:** Developed a smart doorbell that captures visitor images and sends them to the user via email. The user can view the image and unlock the gate through a mobile app.
- **Technologies:** Raspberry Pi 4, Camera, Gmail API, Python, OpenCV

Heart Attack Prediction (ML)

- **Description:** Analyzed a heart disease dataset, visualized data insights, and built a machine learning model to predict the likelihood of heart disease.

- **Technologies:** Python, Scikit-Learn, Panda, Numpy, TF-IDF, Naive Bayes classifier

Spam Mail Prediction (NLP)

- **Description:** Analyzed the UCI Machine Learning dataset of emails (13% spam, 87% non-spam) to develop a spam detection model.
- **Technologies:** Python, NLTK, Scikit-Learn, TF-IDF, Naive Bayes classifier

Cotton Plant Disease Prediction (DL)

- **Description:** Developed a model to identify diseases in cotton plants by analyzing images with Convolutional Neural Networks (CNNs).
- **Technologies:** Python, Tensorflow, Keras, CNN (Resnet50, VGG, etc.)

Certificates

IBM Data Science Professional Certificate:

https://coursera.org/share/6abf81e34e25ca3f8db9df8c977a9b13

Machine Learning Specialization by Stanford:

https://coursera.org/share/0b4cc4f4df5fdc32a9e2b0fcd6e0a5e1

Data Science with Python and Machine Learning Algorithm:
https://simpli.app.link/cVd9s8MTlAb, https://simpli.app.link/8HUqmpPTlAb

Languages

English, Urdu, Pashtu