


Shahbaz Khan

Data Science/AI/ML Engineer

An aspiring MLOps, ML/DL Engineer whose passion lies in leveraging advanced technologies to build exceptional ML/DL models. With a strong grasp of ML/DL algorithms and frameworks who creates intelligent systems that analyze vast data and deliver accurate predictions.

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Bangalore, India 

WORK EXPERIENCE

Data Science Intern

Techvaria Solutions Pvt Ltd.

12/2022 - 05/2023

Bangalore

-> Developed content-based recommendation system using "Bags of Words" (BoW) and Cosine Similarity. Also designed Email Classifier with high precision (MultinomialNB precision: 1.0) to classify "Spam" and "Not Spam" messages.

-> Contributed to data cleaning and preprocessing for various data science projects.

Python/ML/DL Instructor

02/2022 - Present

-> Assisted students in learning Data Science, Python Programming, DSA and Machine Learning.

EDUCATION

B.Tech in Electronics and Communication

Global Academy of Technology

10/2022

TECHNICAL STACK

- **DS/ML/DL:** Python, Data Visualisation, Supervised Learning, Unsupervised Learning, ANN, CNN, RNN, SOMs, CV2, SSD, EDA, Feature Engineering etc.
- **Mathematics for ML & DL:** Algebra, Probability, Statistics, Matrices.
- **Python Packages and Frameworks:** Scikit-Learn, Tensorflow, Keras, NumPy, Pandas, Seaborn, Matplotlib, Plotly, CV2, Streamlit.
- **MLOps Tools:** DVC, CI/CD, GitHub Actions.
- **Web Development and Visualisation Tool:** HTML, CSS, Flask, FastAPI, Jinja2, Streamlit, Power BI.
- **Programming Languages:** Python, SQL, HTML, CSS.
- **Cloud Deployment and Containers:** AWS EC2, GitHub, Heroku, Netlify, Git, Docker.
- **Data Structures and Algorithm:** Completed 100 DSA problems in Striver's SDE Sheet

COURSES

Machine Learning A-Z, Udemy

Deep Learning A-Z, Udemy

SQL Bootcamp, Udemy

Microsoft Power BI, Udemy

Mathematics for Data Science, Udemy

LINKS

LinkedIn

GitHub

Portfolio

PROJECTS

Coccidiosis Detection using CNN

-> Classified chicken fecal images and identified diseases using CNN. Designed and developed scalable deep learning pipelines and implemented MLOps concepts for seamless development and scalability utilizing DVC, CI/CD pipelines and Docker.

-> Deployed on AWS EC2 for user accessibility with the current metrics: Loss-0.5389, Accuracy-95.31%.

Gemstone Price Prediction

-> Designed and developed scalable machine learning pipeline using MLOps. Also developed an entire website system in which we can download logs, artifacts,.pkl file. Utilized CatBoosting Regressor model with R2 Score of 0.9786 and deployed the App on AWS ECS.

Email Spam Detector

-> This app is designed to classify spam emails using NLP techniques, including the TF-IDF vectorization method and various Naive Bayes classifiers, to predict the message's classification. The MultinomialNB achieved the highest precision (1.0) compared to others.

Olympics App

-> Designed to analyze Olympics athlete's historical data and medal results spanning 120 years, providing insights in various aspects.