Shahbaz Khan

Data science/AI/ML Engineer

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Bangalore, India 🏠

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

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 and 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, teaching Python programming, DSA, and machine learning.

EDUCATION

B.Tech in Electronics and Communications

Global Academy of Technology

10/2022

TECHNICAL STACK

- **DS/ML/DL:** Python, Data Visualisation, Supervised learning, UnsupervisedLearning, 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:** HTML, CSS, Flask, FastAPI, Jinja2, Streamlit.
- **Programming Languages:** Python, SQL, HTML, CSS.
- Cloud Deployment and Containers: AWS EC2, GitHub, Heroku, 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

Web Development Bootcamp, Udemy

LINKS

LinkedIn

GitHub

Portfolio

PROJECTS

Coccidiosis Detection using CNN

-> Classified chicken fecal images and identified diseases using CNN. Design 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

-> Design 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 Scam 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.