Shreyansh Nayal

Contact Information

8192049234 | Shreyansh19nayal@gmail.com | github.com/Shreyansh19-o |
linkedin.com/in/shreyansh-nayal-529ba3370
https://portfolio-shreyansh19-os-projects.vercel.app/

Summary

Seeking an entry-level Data Scientist position to leverage foundational expertise in machine learning, Python programming, and data analysis to address real-world challenges and grow within a collaborative environment.

Education

Bachelor of Computer Applications
Graphic Era Hill University, Dehradun, Uttarakhand
Graduation: June 2024
Relevant Coursework*:* Data Structures, Algorithms, Machine Learning, Deep Learning, Statistics, Linear Algebra, Database Management

Technical Skills

- **Programming Languages:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn), SQL, Java
- **Machine Learning:** Supervised Learning (Regression, Classification), Unsupervised Learning (Clustering), Dimensionality Reduction, Model Evaluation & Validation, Feature Engineering, Hyperparameter Tuning
- **Deep Learning:** CNNs, RNNs, LSTMs, Transfer Learning, Neural Networks
- **Data Analysis & Visualization:** Exploratory Data Analysis (EDA), Data Cleaning, Data Preprocessing, Matplotlib, Seaborn, Plotly
- **Databases:** MySQL, AWS S3, MongoDB, SQL Server
- **Tools & Platforms:** Jupyter Notebook, Google Collab, VS Code, Git, GitHub, Docker (Basic), DVC, MLflow, AWS (S3, EC2, EKS)
- **MLOps:** MLflow, DVC, FastAPI, Streamlit, Flask

Projects

- **Sentiment Analysis**
  Technologies*:* Python, Jupyter, AWS, DVC, MLflow, FastAPI
  Description: Developed a system to automate sentiment analysis of text data.
  Contribution: Created a Logistic Regression model to analyze text tone.
  Methodology*:* Conducted extensive data cleaning and EDA, engineered features using

Bag of Words and TF-IDF, evaluated model performance, and registered the model.
Result/Impact: Deployed a robust ML sentiment analysis model on EKS, demonstrating strong predictive capabilities.
Link: [https://github.com/Shreyansh19-o/Capstone-project]

- **Vehicle Insurance Prediction**
  Technologies: Python, AWS, NumPy, Seaborn, Flask
  Description: Built a model to predict client interest in vehicle insurance based on provided details.
  Contribution: Designed a Machine Learning model for prediction of client interest on insurance.
  Methodology: Preprocessed data, optimized model architecture, and validated performance, created a robust pipeline and pushed to Ec2
  Result/Impact: Achieved a validation accuracy of 91% on unseen data, showcasing effective predictive power.
  Link: [https://github.com/Shreyansh19-o/poj1-mlops]

- **WhatsApp Chat Analyzer**
  Technologies: Python, Jupyter, Streamlit
  Description: Developed a tool to perform in-depth analysis of WhatsApp group or Private chats.
  Contribution: Conducted detailed analysis on chat data.
  Methodology: Extracted and cleaned data using Pandas, created interactive dashboards with Streamlit.
  Result/Impact: Identified key trends and presented actionable insights.
  Link: [https://github.com/Shreyansh19-o/wp-chat-analyzer]