Shreyansh Nayal

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GitHub | LinkedIn

SUMMARY

Aspiring Data Scientist & MLOps Engineer with hands-on experience in Machine Learning, Deep Learning, Generative AI, and Cloud Deployment. Skilled in building end-to-end ML pipelines, leveraging LangChain & LangGraph for LLM applications, and deploying models on AWS cloud infrastructure. Passionate about solving data-driven challenges and continuously learning cutting-edge AI technologies.

EDUCATION

Master of Computer Applications (2025–2027)
Graphic Era Hill University, Haldwani, Uttarakhand

Bachelor of Computer Applications (2021–2024)
Graphic Era Hill University, Dehradun, Uttarakhand

Relevant Coursework: Data Structures, Algorithms, Machine Learning, Deep Learning, Statistics, Linear Algebra, Database Management

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TECHNICAL SKILLS

Programming & Libraries: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn), SQL, Java
Machine Learning: Regression, Classification, Clustering, Feature Engineering, Hyperparameter Tuning, Model Validation
Deep Learning: CNNs, RNNs, LSTMs, Transfer Learning, Neural Networks
Generative AI & LLMs: LangChain, LangGraph, Prompt Engineering, Generative AI APIs (OpenAI, Hugging Face)
Data Analysis & Visualization: EDA, Data Cleaning, Plotly, Seaborn, Matplotlib
Databases: MySQL, MongoDB, AWS S3
Tools & Platforms: Jupyter Notebook, Google Colab, VS Code, Git/GitHub, Docker, DVC, MLflow, AWS (S3, EC2, EKS)
MLOps & Deployment: MLflow, FastAPI, Streamlit, Flask, DVC, AWS EKS

PROJECTS

Sentiment Analysis (Deployed on AWS EKS)

- Tech Stack: Python, Jupyter, AWS, DVC, MLflow

- Automated sentiment classification system for text data
- Built ML (Logistic Regression) model after feature engineering with Bag-of-Words + TF-IDF
- Tracked experiments with MLflow and deployed on AWS EKS

Vehicle Insurance Prediction (MLOps Project)

- Tech Stack: Python, AWS, NumPy, Seaborn
- Built ML/DL model for predicting customer interest in insurance policies
- Applied transfer learning & model optimization
- Secured strong validation accuracy on unseen datasets

WhatsApp Chat Analyzer

- Tech Stack: Python, Pandas, Jupyter, Streamlit
- Developed interactive dashboard to analyse group & personal chat datasets
- Extracted insights: user contribution, busiest days/times, common words, sentiment trends
- Built Streamlit app to interactively visualize chat analytics

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CERTIFICATIONS View Credential

- Generative AI by Google
- Python Programming – Great Learning
- Deep Learning Specialization – Coursera
- Machine Learning Fundamentals – Simplilearn SkillUp

https://shreyansh19-o.github.io/page.io/