VANSH DESHWAL

📞 9354002981   ✉ vanshdeshwal66@gmail.com   in linkedin.com/in/vansh-deshwal   ⌗ github.com/VanshDeshwal

Education

Indian Statistical Institute, Kolkata   **2024 – 2026**
M.Tech in Cryptology and Security

Bhagwan Parshuram Institute of Technology   **2018 – 2022**
B.Tech in Electronics and Communication Engineering

Certifications & Coursework

- Deep Learning Specialization by Andrew Ng
- Programming and Data Structures
- Algorithms
- Machine Learning
- Information Theory
- DBMS

Projects

BitBot | *Langchain, LangGraph, FastAPI*   **Ongoing**
- Developed and deployed a multi-agent AI chatbot using LangChain & LangGraph for both general and domain-specific Q&A.
- Implemented semantic search and context-aware responses using Azure OpenAI & Pinecone vector database.
- Designed scalable backend APIs with FastAPI, async processing, caching, and CI/CD deployment to Azure via Docker.

Risk Level Prediction Platform | *xg-boost, asure, Fast API*   **April 2025**
- Designed and implemented an end-to-end **ML pipeline** to assess and classify client profiles using structured tabular data.
- Engineered **feature transformation pipelines** and performed extensive **model benchmarking** (Logistic Regression, Random Forest, XGBoost) with hyperparameter optimization.
- Developed a production-ready **FastAPI service** with Excel/JSON ingestion, real-time inference, and structured output for downstream systems.

ML Playground | *Python, scikit-learn, FastAPI*   **Jan 2025**
- Built an interactive platform integrating multiple machine learning techniques with a modular and extensible architecture.
- Designed backend workflows to handle dynamic computations and visualizations for diverse algorithmic experiments.
- Implemented efficient deployment pipelines ensuring smooth integration of computational components with a user-facing interface.

Experience

Data Science Intern — Telecommunications Consultants India Limited   **Mar '21 – Apr '21**
On-Site   *Intern*
- Assisted in developing the **complaint management system** by preparing and analyzing complaint data from the MySQL database.
- Conducted **exploratory data analysis (EDA)** to identify frequent complaint categories and resolution patterns.
- Created simple **reports and visualizations** to support decision-making by the management team.

Technical Skills

Languages: Python, SQL, C
Libraries/Frameworks:, NumPy, Pandas, scikit-learn, matplotlib, seaborn, PyTorch, FastAPI
Tools: Jupyter, Git, Docker, Streamlit, Tableau, Linux, VS Code
Concepts: Supervised/Unsupervised Learning, Neural Networks, NLP, CV, EDA, Statistics

Leadership / Extracurricular

Placement Coordinator, ISI   **Aug 2024 – Present**
Placement Cell   *Kolkata, India*
- Coordinated with companies and students to facilitate internship and job placements.
- Organized mock interviews and resume review sessions for peers.