

Nishant Deswal

Linkedin | Portfolio

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EDUCATION

Indian Institute Of Information Technology, Lucknow

Masters in Artificial Intelligence and Machine Learning : 8.45

Lucknow, UP

08/2023 - 06/2025

Maharishi Dayanand University, Rohtak

BSc (hons) Maths ; Percentage: 75.7%

Rohtak, HR

08/2020 - 06/2023

EXPERIENCE

Ambitio

Data Engineer

Bengaluru, KA

10/2024 - Present

- Finetuned an embedding model (**nomic-embed-text**) to improve similarity search by 56%, directly enhancing **RAG performance** and user experience
- Trained a neural network model that predicts and shortlists applications with **RLHF**, translating into measurable business impact through improved conversion rates
- Architected and implemented scalable ETL pipelines that processed 40,000+ records quarterly, delivering **clean, well-modeled data** that drove business decisions
- Developed an **AI sales audit system** that automated call analysis and trend insights, reducing BDM audit effort and improving BDA performance
- Built an **AI document evaluation tool** for SOPs and LORs, cutting review time and providing instant feedback to students and writers
- **Tech Stack:** Python, Playwright, OpenAI, Python, EC2, LLMs, AWS

Propques

Data Engineer

Lucknow, UP

04/2024 - 10/2024

- Engineered 30+ extraction scripts with **Selenium and Playwright** ensuring data quality
- Managed **noSQL database** with 10000+ records.
- Migrated from **GCP** to **DigitalOcean**, achieving 90% cost reduction.
- **Tech Stack:** Python, Selenium, Flask, MongoDB, GCP, Dialogflow, DigitalOcean

PROJECTS

Common Vulnerabilities and Exposures Data Analysis ↗

Tech Stack: Flask, MongoDB Atlas, Pinecone, Plotly, Groq API, LLaMA 3.1 8B, RAG, Transformers

- Built an **NLP-driven platform** for analyzing **CVE (Common Vulnerabilities and Exposures)** data, enabling automated extraction, visualization, and semantic search of cybersecurity vulnerabilities
- Integrated **LLaMA 3.1 8B** via **Groq API** for intelligent question answering and similar CVE retrieval using **RAG-based vector search**
- Developed a **Flask dashboard** with **Plotly visualizations** and MongoDB-Pinecone backend, improving accessibility and insights for security researchers

Interview Hub ↗

Tech Stack: Python, Flask, MongoDB, Groq API, HTML, CSS, JavaScript

- Developed a full-stack **AI-powered interview platform** using **Groq, Flask, and MongoDB**, featuring automated Q&A generation and real-time notes management

SKILLS

Programming Languages & Frameworks: Django, Langchain, Langgraph, Git, TensorFlow, FastAPI

Data & Databases: MongoDB, MySQL, PostgreSQL, Data Modeling, Analytics

Cloud & Infrastructure: Google Cloud Platform, AWS, DigitalOcean, Distributed Computing

ML & AI: Machine Learning, Deep Learning, NLP, RLHF, Generative AI, RAG, Agentic AI