

Vishu Gupta

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EDUCATION

- **Guru Gobind Singh Indraprastha University** New Delhi, India
B.Tech in Artificial Intelligence and Machine Learning (CGPA: 8.54) 2021 – 2025

TECHNICAL SKILLS

- **Languages:** Python, Java, SQL
AI/ML: NLP, Deep Learning, LLMs, RAG, Time Series
Tools: Pandas, Scikit-learn, OpenCV, Power BI, Git
Concepts: OOP, Data Structures, ETL Pipelines

EXPERIENCE

- **CBSL Groups** Jul 2024 – Aug 2024
Software Engineer Intern Gurugram, India
 - Designed and implemented an end-to-end ETL pipeline using Python and Talend to process and migrate 50,000+ records into a centralized SQL database.
 - Optimized SQL queries and indexing strategies, reducing data retrieval latency by 30% and improving reporting efficiency.
 - Collaborated with cross-functional teams to gather business requirements and translate them into scalable data engineering solutions.
 - Performed data cleaning, transformation, and validation to ensure high data quality and consistency across systems.
 - Automated repetitive data workflows, significantly reducing manual effort and improving operational productivity.

PROJECTS

- **RAG-Based Document Intelligence System** | *LangChain, LLMs, FastAPI*
 - Developed a Retrieval-Augmented Generation (RAG) system to enable intelligent querying over large document datasets.
 - Integrated LLMs with vector databases to retrieve contextually relevant information and improve response accuracy.
 - Built REST APIs using FastAPI to support scalable and real-time query handling.
 - Implemented efficient document chunking and embedding strategies to optimize retrieval performance.
- **Real-Time Driver Alert System** | *Python, OpenCV*
 - Engineered a real-time driver monitoring system using computer vision to detect drowsiness through facial landmark tracking.
 - Implemented eye aspect ratio (EAR) and blink detection algorithms for accurate fatigue detection.
 - Designed a latency-sensitive alert mechanism to notify drivers instantly and prevent potential accidents.
 - Optimized the system for low-light conditions using image preprocessing techniques for reliable 24/7 performance.
 - Enhanced model robustness through real-time video stream processing and efficient frame handling.

CERTIFICATIONS AND ACHIEVEMENTS

- **AIR 73:** SSC TECH- 66 (ARMY)
Stanford (Online): Unsupervised Learning, Recommenders, Reinforcement Learning
Udemy: Python Bootcamp