Pragyan Bhatt

B.Tech Computer Science
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Summary

Computer Science student (CGPA: 8.2) with strong foundations in statistics, machine learning, and data analytics. Experienced in building scalable ML-driven systems, statistical modeling, and production-grade backend solutions. Interested in applying AI/ML to complex engineering problems.

Education

- **B.Tech in Computer Science** *2023 – 2027*
  Vellore Institute of Technology *CGPA: 8.2*

Technical Skills

- **Programming:** Python, SQL, C++, Java
- **ML & Statistics:** Regression, Classification, Clustering, Hypothesis Testing
- **Libraries:** Pandas, NumPy, Scikit-learn, OpenCV
- **Databases:** PostgreSQL, MySQL

Data Science Projects

- **Chemical Equipment Visualizer** *Django, PostgreSQL, Pandas*
  - Built analytics platform processing 100+ industrial equipment records in ¡5s using statistical modeling and IQR-based anomaly detection.
  - Designed 0–100 health scoring system and deployed REST APIs with PostgreSQL and Docker.
- **Crowd Density Analysis System** *Python, OpenCV, Scikit-learn*
  - Developed computer vision pipeline to quantify crowd density from video streams.
  - Performed model validation and parameter tuning to improve detection accuracy.
- **Document Retrieval System (RAG-Mitra)** *Python, NLP, LangChain, Vector Embeddings*
  - Built an NLP-based semantic retrieval system leveraging vector embeddings for contextual information extraction.
  - Evaluated retrieval performance using relevance metrics and optimized query processing for improved response latency.

Additional Experience

- Solved 300+ algorithmic problems demonstrating structured problem-solving ability.
- Completed **MATLAB Onramp** (MathWorks) – foundational training in numerical computing and data analysis.

Core Competencies

- Analytical thinking and model validation mindset
- Collaboration with cross-functional teams
- Strong curiosity in AI/ML, GenAI, and emerging technologies