Simran

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Education

- **Vellore Institute of Technology** — Bhopal, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 8.46 — *2022 – 2026*

Skills

Programming: Python, Java, JavaScript, SQL
AI/ML: Machine Learning, Deep Learning, NLP, Feature Engineering, Data Preprocessing
Frameworks: PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib, Streamlit, React.js, Next.js, Node.js, FastAPI
Cloud: AWS, GCP, Azure, IBM Cloud
Databases: MongoDB, BigQuery, MySQL
Analytics: Tableau, Power BI, Excel

Projects

DataVista – Cloud Data Analytics Dashboard | Google Cloud, BigQuery, SQL, Python, Tableau (May 2024):

- Developed an interactive analytics dashboard tracking 50+ KPIs, used by 5+ business teams, improving decision-making efficiency by 30%.
- Designed and automated ETL pipelines using BigQuery and SQL, reducing manual reporting efforts by 70% and saving 15+ hours/week.
- Delivered real-time visualizations and insights to 100+ stakeholders, enabling faster data-driven decisions across departments.

CraftConnect – Local Services Platform (Feb 2025 – May 2025):

- Built a scalable full-stack platform on the FReMP stack, connecting 200+ users with verified professionals, increasing booking rates by 45% through an enhanced UI/UX.
- Integrated an agentic LLM-powered chatbot using IBM Watsonx, orchestrated via LangFlow, enabling real-time execution of 50+ tasks/day.
- Implemented secure JWT-based authentication, MongoDB data management, and a seamless payment portal, supporting 500+ concurrent users with 99.9% uptime.

Traffic Forecasting using Graph Convolution-LSTM Model (Jan 2024 – Mar 2024):

- Developed a hybrid GCN + LSTM model for traffic flow prediction on 1M+ data points, capturing both spatial and temporal dependencies.
- Preprocessed datasets with 20+ engineered features, applying normalization and transformation for efficient model training.
- Improved forecasting accuracy by 18% over baseline ML models, predicting traffic speed, volume, and congestion across 10+ major routes.
- Delivered results with Python, PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, and NetworkX.

Experience

Indian Space Lab – Intern (Dec 2024 – Jan 2025):

- Developed a framework for automated quality control of satellite data, detecting 1,000+ anomalies/month across 10GB+ of data streams.
- Improved anomaly detection accuracy by 25%, ensuring higher data integrity for downstream applications.
- Optimized processing pipelines, reducing latency by 40% and saving 20+ engineer hours/month.

Industrial Internship and Certification

- Microsoft Certified: Azure AI Fundamentals (Jun 2025)
- AWS Solutions Architect - Associate Internship Program (May 2025)
- GEN AI Using IBM Watsonx, IBM (May 2025)
- AWS Certified Machine Learning Engineer – Associate (Aug 2025)