

Simran

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EDUCATION

• Vellore Institute of Technology

Bachelor of Technology - Computer Science and Engineering; CGPA: 8.46

Bhopal, India

2022 – 2026

SKILLS

Programming: Python, Java, JavaScript, SQL

AI/ML: Machine Learning, Deep Learning, NLP, Feature Engineering, Data Preprocessing

Frameworks: Scikit-learn, Pandas, NumPy, Matplotlib, Streamlit, React.js, FastAPI

Cloud: AWS, GCP, Azure, IBM Cloud

Databases: MongoDB, 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.
- Applied 20+ engineered features with preprocessing normalization, improving accuracy by 18% vs baseline ML models.
- Forecasted traffic speed, volume, and congestion across 10+ major routes using Python, PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, NetworkX.s.

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.

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)