

# Lalith Nandakumar

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## SKILLS SUMMARY

- **Data Science:** data visualization, ETL, EDA, Predictive Analysis, statistical modelling, LLM, AI Agents, Prompt Engineering, Data Engineering, Docker, LangChain, LangGraph, RAG
- **Tools:** Python (Tensorflow, PyTorch, Prophet, Pyspark, Sklearn, NLTK, Keras), R, Git, SQL, AWS, Neo4j, Streamlit
- **Visualization:** Power BI, QuickSight, Tableau, Plotly Express (Interactive Dashboards)
- **Certifications:** Databricks, AWS Certified Cloud Practitioner, BCG Data Science Job Simulation (Forage)
- **Soft Skills:** Data Presentation, Stakeholder Engagement, Time Management, Prioritization, Deadline Management, Interpersonal Communication, Relationship Building, Collaboration, Adaptability

## EDUCATION

**Master's in Data Science**, University of Calgary, Alberta **GPA: 4.0/4.0** **Aug 2024 - Aug 2025**

- **Relevant Coursework:** Power BI, Statistical modelling, Cloud Architecture, database management, feature development, data analysis, machine learning

**Diploma in Data Science**, Vellore Institute of Technology **GPA: 4.0/4.0** **Aug 2023 - Jun 2024**

- **Relevant Coursework:** ANN, CNN, LSTM, Neural Networks, Spark, Pyspark

**Bachelor's in Electronics**, Vellore Institute of Technology **Jul 2019 - Aug 2023**

## WORK EXPERIENCE

**Data Science Intern, SensorUp** (Oil and Gas) **Jun 2025 – Sep 2025**

- Uncovered critical predictive relationships between **SCADA** data and **emission events** through in-depth correlation analysis, and feature engineering process for machine learning models.
- Built predictive monitoring system by implementing ML models for **time-series** forecasting and **anomaly detection**, measurably improving system reliability and reducing false alarms.
- Accelerated data analysis by building a intelligent dashboard with **AI Agents**, leveraging advanced **Agents** for generative AI reporting and **image classification** for automated event verification.

**Graduate Research Intern (Data Scientist)**, **May 2025 - Present**  
**University of Calgary and Alberta Children's Hospital Research Institute**

- Leveraged machine learning and advanced statistical analyses (e.g., mediation, moderation) on multi-modal longitudinal data to develop predictive models of child behavioral outcomes and visualize the impact of early-life factors, using **R** and Minitab.

## PROJECTS / HACKATHONS

- **Won 3<sup>rd</sup> place in a Data Analytics Case Competition/Hackathon:** **Feb 2025**
  - Collaborated with a four-member team to develop a business intelligence dashboard, from start to finish in a high- intensity build period utilizing AWS QuickSight.
  - Communicated insights to Keyera and AWS partners highlighting optimization strategies and recommendations.
- **Urban System Hackathon:** **Mar 2025**
  - Developed graph-based machine learning models using Neo4j's Graph Data Science library to analyze relational employee-project data, identifying patterns in workforce productivity and project success metrics
  - Implemented predictive analytics pipeline (Python, Pandas, scikit-learn) to classify termination risks and optimize staffing strategies, using entity relationships across 4 interconnected datasets (Employees, Branches, Projects, Time Tracking).
- **Electricity Forecasting:** **Mar 2025**

Designed a cloud-native data pipeline using CI/CD pipelines (EIA API → AWS Lambda → S3 → EC2 → Streamlit) for ingesting, processing, and forecasting large-scale electricity data.