

JIBIN BABY

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[GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Results-driven Data Engineer transitioning into Data Scientist and Machine Learning, with expertise in building and optimizing data pipelines, ETL processes, and implementing ML solutions. Proven track record in industrial systems and large-scale deployments with experience in Python, Apache Spark, and Azure DevOps.

TECHNICAL SKILLS

- **Data Engineering:** DBT, Airbyte, Data Pipeline Orchestration, ETL Processes, Apache Airflow, Kafka
- **Cloud Platforms:** AWS (EC2, S3, Athena, Glue), Azure DevOps
- **AI/ML:** NLP, LLM, Vector Embedding, Data Analysis, Model Fine-tuning, Statistical Analysis, Medical Diagnosis, Data Mining.
- **Databases:** Google BigQuery, Snowflake, Supabase, ChromaDB
- **Programming:** Python, SQL, Apache Spark, NI Labview
- **Industrial Tools:** LabVIEW, FPGA, Docker, GitHub.
- **Soft Skills:** Cross-functional Collaboration, Workflow Optimization, Technical Communication, Presentation and Documentation.

PROFESSIONAL EXPERIENCE

Staff Software Test Engineer

National Instruments (NI) | Bengaluru, India | 01/2024 – 08/2024:

- Implemented test automation workflows in LabVIEW and LabVIEW RT, enhancing system efficiency.
- Built and maintained data pipelines using DBT for bug tracking and data management.

Software Test Engineer

National Instruments (NI) | Bengaluru, India | 01/2022 – 01/2024:

- Developed data-driven applications using Python and SQL.
- Implemented automated testing frameworks for industrial communication systems.
- Worked with Azure Test Plans, Azure Devops, Grafana and Jfrog.

EDUCATION

Master's in Applied Machine Intelligence

Northeastern University | Boston, Massachusetts
Expected Graduation: 12/2025 | GPA: 4.0

Advanced Data Science Diploma

Indian Institute of Information Technology | Bangalore
Graduated: 08/2024 | GPA: 3.9

Bachelor's in Computer Applications

Bangalore North University | Bengaluru, India
Graduated: 05/2022 | GPA: 9.59

PROJECTS

AI College Assistant - RAG Workflow Implementation

- Developed AI assistant for Northeastern University's College of Professional Studies
- Implemented Retrieval Augmentation Generation workflow with Vector Database
- Created interactive system for program-related student queries
- Utilized local LLM for efficient and secure response generation

Report Plus Application - Student Management System

- Developed Android-based student management system adopted by 13,000+ schools
- Implemented real-time analytics using BigQuery for data analysis
- Created automated systems for attendance, grades, and report management
- Designed intuitive dashboard for educational metrics visualization

Machine Health Monitoring Dashboard

- Built Flask-based web application for real-time machinery monitoring at NI
- Implemented NI Labview and Labview RT for FPGA and RT module health monitoring
- Created visualization tools for maintenance decision support

End-to-End Data Engineering Project

- Designed and implemented comprehensive data pipeline architecture
- Utilized Dagster, PostgreSQL, Airbyte and Google BigQuery.
- Used Airflow and Kafka for real-time data ingestion.

CERTIFICATIONS

- Azure Administration Essential Training by LinkedIn.
- End-to-End Data Engineering Project Certification from LinkedIn.
- Advanced SQL 50 Certification from LeetCode.