

JIBIN BABY

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[LinkedIn](#) · [GitHub](#) · [Portfolio](#)

PROFESSIONAL SUMMARY

Mission-driven Data Engineer and AI specialist pursuing a Master's in Applied Machine Intelligence, with expertise in implementing LLM-based solutions and AI applications with real-world impact. Experience designing and delivering end-to-end projects from concept to deployment, with a strong foundation in data pipelines, RAG workflows, and human-centered AI applications. Passionate about leveraging generative AI to solve complex societal challenges.

EDUCATION

Master's in Applied Machine Intelligence
Northeastern University, Boston, Massachusetts

Expected 04/2026
GPA: 4.0

Advanced Data Science Diploma
Indian Institute of Information Technology, Bangalore

08/2024
GPA: 3.9

Bachelor's in Computer Applications
Bangalore North University, Bengaluru, India

05/2022
GPA: 9.59

IMPACT-DRIVEN AI PROJECTS

AI College Assistant Northeastern, RAG - [GitHub Source Code](#)

- Developed AI assistant for Northeastern University's College of Professional Studies to improve student access to program information
- Presented alongside Associate Dean of CPS to university leadership, demonstrating the solution's potential to transform student support services
- Implemented Retrieval Augmentation Generation workflow with Vector Database (ChromaDB) for accurate, context-aware responses
- Utilized local LLMs for efficient and secure response generation, ensuring privacy and data protection

Report Plus Application - (Startup Experience)

- Co-founded and developed Android-based student management system adopted by 13,000+ schools across diverse communities
- Implemented real-time analytics using BigQuery to help schools make data-driven decisions for student success
- Created automated systems for attendance, grades, and report management, reducing administrative burden on educators
- Led user research sessions with educators to understand their challenges and improve the platform based on feedback

End-to-End Data Engineering Project - [GitHub Source Code](#)

- Designed and implemented comprehensive data pipeline architecture with Dagster, PostgreSQL, Airbyte and Google BigQuery
- Created automated ETL workflows to process and transform large datasets for machine learning model training

PROFESSIONAL EXPERIENCE

Staff Software Test Engineer

01/2024 – 08/2024

National Instruments (NI), Bengaluru, India

- Implemented test automation workflows in LabVIEW and LabVIEW RT, enhancing system efficiency by 35%
- Built and maintained data pipelines using DBT for bug tracking and data management
- Collaborated with cross-functional teams to deliver high-quality industrial communication systems

Software Test Engineer

01/2022 – 01/2024

National Instruments (NI), Bengaluru, India

- Developed data-driven applications using Python and SQL to streamline testing processes
- Implemented automated testing frameworks for industrial communication systems
- Worked with Azure DevOps ecosystem including Test Plans, Grafana and JFrog

TECHNICAL SKILLS

- **AI/ML:** LLM Implementation, Prompt Engineering, RAG Workflows, NLP, Vector Embedding, Model Fine-tuning
- **Cloud Platforms:** AWS (EC2, S3, Athena, Glue), Azure DevOps, Azure Cognitive Services
- **Data Engineering:** ETL Processes, Data Pipeline Orchestration, Apache Airflow, Kafka, DBT, Airbyte
- **Databases:** Google BigQuery, Snowflake, Supabase, ChromaDB, PostgreSQL
- **Programming:** Python, SQL, Apache Spark, NI Labview
- **Professional Skills:** Human-Centered Design, Project Management, Cross-functional Collaboration, Technical Communication

CERTIFICATIONS

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