

Aakash Deepak Bartakke

Binghamton, NY | (607) 338-8761 | aakashbartakke21@gmail.com | <https://www.linkedin.com/in/aakash-bartakke> | <https://github.com/adb-21>

PROFESSIONAL EXPERIENCE

LTIMINDTREE, *Senior data engineer* | Pune, India | Dec 2020 – June 2024

Inventory Utilization Tracker, *Developer*

- Spearheaded the Inventory Utilization Tracker project, contributing to **€0.1 million profit** in the first financial year.
- Designed data warehouses, end-to-end ETL pipelines, and Power BI reports for comprehensive Supply Chain Information Management.
- Created SQL views and stored procedures to perform metric calculations and feed key performance indicators.
- Executed end-to-end data validation and integrity testing for designed solutions.

Application Service Delivery, *Developer*

- Optimized heavy ETL pipelines, reducing runtimes by up to **60%** to ensure timely data delivery and cost efficiency.
- Implemented data cleansing, event logging, and flow monitoring within ETL processes, automating workflows to minimize manual effort and human error.
- Provided client support, performed bug fixes, and developed new features, maintaining **100% SLA adherence**.
- Documented solutions by drafting knowledge base articles, Root Cause Analysis (RCA) documents, and workflow diagrams.

Environment Sustainability Governance report, *Developer*

- Developed a tool enabling business stakeholders to calculate waste from manufacturing and product usage, facilitating tax savings.
- Built ETL pipelines to integrate data from diverse sources for comprehensive reporting.
- Engineered SQL-based business logic and calculations to create new measures, enhancing client data analysis.
- This project resulted in a **14% reduction in payable taxes** for the company.

BINGHAMTON UNIVERSITY, *Research assistant* | Binghamton, New York | Dec 2024-present

- Developed a data streaming solution using Apache Kafka and Python to transmit thermal cooling test data.

PROJECT EXPERIENCE

Product Sale Dataflow pipeline, *independent project*

- Engineered a scalable ELT pipeline using Apache Kafka and AWS EC2 to stream millions of product sale records daily in real-time.
- Implemented cost-effective solution utilizing AWS DynamoDB **achieving less than 4\$ daily cost**.
- Orchestrated data flows with Apache Airflow for robust scheduling and monitoring.

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java
- **Cloud & Big Data:** AWS (EC2, DynamoDB), Azure (Data Factory, Data Lake, SQL), Apache Kafka, Apache Airflow
- **Database & Analytics:** SSIS, SSMS, Power BI, Azure SQL
- **Tools & Platforms:** Git, GitHub, Visual Studio Code, Jupyter Notebook, ServiceNow, Jira
- **Operating Systems:** Linux, Windows
- **Concepts & Methodologies:** Data warehousing, ETL Development, Data pipeline optimization, Data Visualization
- **Libraries and Modules:** pandas, numpy, confluent_kafka, boto3, multiprocessing
- **Certifications:** Microsoft AZ-900 Azure Fundamentals Certification

EDUCATION

- **Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science** *Master of Science in Computer Science, Artificial Intelligence Track* | Expected May 2026 | 3.5 GPA
- **Relevant Coursework:** Data Structures and Algorithms, Machine Learning, Deep Learning
- **Dr. Babasaheb Ambedkar Technological University, Lonere, India**
- *Bachelor of Technology in Computer Science* | August 2016 – June 2020
- **Relevant Coursework:** OOP, Data structures, operating systems, Database management systems, Cloud computing

LEADERSHIP AND INVOLVEMENT EXPERIENCE

- Led a final-year undergraduate project, developing a blockchain-supported solution to address traditional data management system issues (August 2019 – June 2020).
- Organized and conducted workshops on project lifecycle demonstrations for junior employees, enhancing project management skills (May 2022).
- Arranged workshops on SSIS (SQL Server Integration Services) for junior employees, enhancing their proficiency in data integration. (Jul 2022)