Aakash Deepak Bartakke

Binghamton, NY | (607) 338-8761 | abartakke@binghamton.edu | https://www.linkedin.com/in/aakash-bartakke |
https://github.com/adb-21

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

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

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.

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*)