

BASITH MOHAMED S.

basithsmohd@gmail.com • +1(413) 275-6901 • [linkedin.com/in/basith-mohamed/](https://www.linkedin.com/in/basith-mohamed/) • Amherst, MA

EDUCATION

Master of Science in Engineering Management

University of Massachusetts Amherst (GPA - 3.9)

May 2026

Relevant Courses: Decision and Predictive Analytics, Operations Research, Operations and Technical Project Management

Bachelors in Instrumentation and Control Engineering

National Institute of Technology Tiruchirapalli (GPA - 7.91)

July 2021

WORK EXPERIENCE

Data & Analytics Consultant - Thorogood Associates, Bengaluru

July 2022 - July 2024

- Worked closely with the stakeholders of a Fortune 500 FMCG company to create an end-to-end control intelligence ETL platform using the Azure Data Engineering Stack for global finance controllers
- Designed and developed a black box financial anomaly detection model using statistical methods and Recency, Frequency, Monetary Value (RFM) scoring based on 30+ KPIs
- Planned, developed and delivered 15+ production grade reports leading a team of 3 in the R2R and M2D control streams. Designed 10+ data ingestion pipelines using Databricks to onboard new sub-systems
- Conceived and implemented two internal automation solutions aimed at streamlining the monthly data refresh process, resulting in a 35% reduction in overall time expenditure
- **Primarily Worked With:** Azure Databricks (SQL, Python, Scala), Data Factory, Data Lake, PowerBI (DAX), Tableau, Spark, GIT & Azure DevOps, BigQuery, MS Excel, JIRA, R

Graduate Engineer - Dr Lal PathLabs, New Delhi

July 2021 - Jul 2022

- Developed ETL systems and analytical models with SQL and Python to transform raw log files into actionable business intelligence dashboards in PowerBI.
 - Designed, implemented, and deployed an end-to-end data automation product utilizing the C# .NET framework, resulting in a 15% reduction in global instrumentation downtime
 - Led the development and continuous maintenance of the Laboratory Information Management System (LIMS) platform in close collaboration with product vendors and the internal operations team
 - Engineered an innovative workflow automation solution for an instrument interface, achieving a 10% reduction in manual task resource utilization countrywide
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OTHER SKILLS

- **Technology Solutions:** TensorFlow, PyTorch, Hadoop, Matlab, Sklearn, Gurobi, Fusion360, Postgresql
 - **Certifications:**
 - Certificate Program in Business Analytics and Artificial Intelligence -Virginia Tech, India (Nov 2022)
 - MOOCs: Data Visualization with Tableau, Business Metrics for Data-Driven Companies
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NOTABLE PROJECTS

- Analyzing Traffic Accidents: Patterns, Trends, and Predictive Insights - 2024
 - NLP Business data insight generation and visualization on participant information (SAE India) - 2022
 - Cortico-Muscular Coherence Analysis on Leg Movements -2021
 - Solar-powered washing machine for rural applications - 2021
 - Suspension system modelling for an autonomous agricultural rover (SenseGrass Inc)- 2019 - Internship
 - Control System development for a Automatic Car Parking System - 2018 - Internship
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AWARDS

- Received Passion award and Star award at Thorogood for delivering beyond expectations.
 - Won Startup Weekend Trichy 2017 for 'The Cocoon - A Modular Bicycle Umbrella'
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