BASITH MOHAMED S.

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EDUCATION

Master of Science in Engineering Management   **Jan 2025**
University of Massachusetts Amherst (GPA - 3.9)
Relevant Courses: Decision and Predictive Analytics, Operations Research, Operations and Technical Project Management

Bachelors in Instrumentation and Control Engineering   **July 2021**
National Institute of Technology Tiruchirapalli (GPA - 7.91)

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), Tablaeu, 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

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

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

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'