

# HARSHITA MOHANRAM

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Highly motivated and analytical professional with a strong background in SQL, ETL processes, and data warehousing. Proficient in multiple programming languages such as Python, C/C++, R and SQL, and familiar with database concepts as well as enterprise software. Demonstrated ability to work independently and as part of a team, creating and maintaining professional relationships. Proficient in creating insightful dashboards and reports using Tableau or Power BI. Analytical thinker with the ability to analyze and interpret complex data, identifying trends and patterns. Strong communication and collaboration skills, capable of working independently or as part of a dynamic team. Demonstrated expertise in both quantitative and qualitative data analysis, creative problem-solving, and a proactive approach to process improvement.

## WORK EXPERIENCE

### Digital Factory, Chicago, *Data Analyst Intern*

Jan 2023 - May 2023

- Created actionable Data Visualizations using Microsoft Power BI to monitor customer satisfaction, resulting in 15% increase in sales rate to stakeholders
- Developed and executed ETL pipelines in Azure Synapse Analytics to automate data ingestion, transformation, and loading, reducing manual effort and increasing data processing efficiency by 35%.
- Developing data models and database designs to meet business requirements and performance needs.
- Employed Azure Synapse Analytics' built-in machine learning capabilities to create predictive models, resulting in a 25% increase in demand forecasting accuracy and supporting data-driven decision-making.
- Implementing data quality and data governance frameworks to ensure data accuracy, consistency, and compliance.
- Building and deploying real-time streaming analytics solutions using Azure Stream Analytics and other related services
- Provided support for data platforms, databases, and Azure Gov infrastructure, leveraging PowerShell and Python for automation, resulting in continuous data availability and streamlined workflows.
- Leveraged Azure Synapse Analytics serverless architecture to dynamically scale resources as per workload demands, optimizing cost management and minimizing downtime during peak data usage periods.
- Building and maintaining data pipelines using PySpark to process and analyze large-scale data sets.
- Collaborating with other teams such as DevOps, security, and compliance to ensure data infrastructure and operations are aligned with organizational standards.

### ABB, Bangalore, India, *Senior Supply Chain Data Analyst*

April 2020- Dec 2021

- Implemented Azure Data Factory (ADF) extensively for ingesting data from different source systems like relational and unstructured data to meet business functional requirements.
- Designed and developed Batch processing and real-time processing solutions using ADF, Databricks clusters and stream Analytics and Designed and modeled Azure Synapse Analytics to migrate from On-Premise SQL Server into Cloud.
- Maintain and provide support for optimal pipelines, data flows, and complex data transformations and manipulations using ADF and PySpark with Databricks.
- Worked with complex SQL views, Stored Procedures, Triggers, and packages in large databases from various servers.
- Used Azure DevOps and Jenkins pipelines to build and deploy different resources (Code and Infrastructure) in Azure. Ensure the developed solutions are formally documented and signed off by the business.
- Created numerous pipelines in Azure using Azure Data Factory v2 to get the data from disparate source systems by using different Azure Activities like Move & Transform, Copy, filter, for each, Databricks etc and Automated jobs using different triggers like Events, Schedules and Tumbling in ADF.
- Implement medium to large scale BI solutions on Azure using Azure platform services (Azure Data lake, Azure Data factory, Azure Data lake analytics, stream analytics, Azure Databricks)
- Designed and developed a new solution to process the NRT data by using Azure stream analytics, AZURE Event Hub and Service Bus Queue.
- Led data and database technology administration, optimizing Azure SQL MI, SSIS, Azure SQL PaaS, and Azure Data Factory for efficient data solutions, resulting in improved system performance.

## PROJECTS

- Olympics Data Analytics Pipeline on Azure** [Link](#) - ADF, Azure Synapse Analytics, SQL, Databricks,
  - Developed a comprehensive data analytics pipeline on the azure cloud platform to analyse and gain insights from Olympic data.
  - Utilized Azure services such as Data Factory, Data Bricks and Synapse analytics to process, clean and analyze the data. This project also leverages various Azure resources, such as IAC Azure accounts, different resource groups (engineering, development, and production), VM scale sets, Virtual Networks (VNet), and Azure SQL databases to support the data processing and analytics needs.
  - In summary, this Azure-based Olympic data analytics project demonstrates how cloud services can be effectively utilized to ingest, transform, and analyze large datasets, ultimately providing valuable insights and information for decision-making and research related to the Tokyo Olympics.
- Movie Booking System** [Link](#)- SQL, AWS Lambda, SFN, Batch, EventBridge, Athena, Glue, Sagemaker, EC2, RDS
  - Designed and implemented a movie booking system using MySQL, HTML and Java technologies that eliminated conflicting booking for conference rooms and improved the process by 99%. Created a materialized view project using multidimensional data modeling using procurement data by extracting data from Sybase and writing MySQL queries in SQLdbx, and designing a user interface HTML, CSS, and JAVA to make efficient business decisions by analyzing the data generated in the result.

## EDUCATION

**Master of Science** - *Information Technology & Management, University of Texas at Dallas*

**Relevant Coursework:** Data Visualization, Python, Advanced Statistics, R, Big Data, Applied ML, Database foundation

**Bachelor of Technology** – *Electronics and Communication, SJB Institute of Technology*

## CERTIFICATIONS & ACTIVITIES

Microsoft Certified: Azure data Engineer Associate

[Links](#)

## SKILLS

**Programming:** Python (NumPy, Pandas, Scikit Learn, TensorFlow, OpenCV, matplotlib, HTML, CSS, PySpark, R, Mongo DB

**Database:** Microsoft SQL Server, MySQL, PL/SQL, CQL, snowflake, BI, Visual basic, Big Data, project Management, Looker, Grafana

**Tools:** Tableau, PowerBI, Microsoft Excel (Pivot Tables, Macros Advanced Functions), Qlik, KPI, SAP BO, Docker, PowerApps, Power Automate, Power Point, Adobe analytic, Klipfolio

**BigData:** Spark, Hadoop, Hive, Sqoop, Kafka, Impala, ARIMA, ETS, customer service, S3, Salesforce, MS Dynamics, Visio

**Data Science & Analytics:** Data Warehousing, Data Mining, Data Modeling, Database Querying, Microsoft Office 365, PowerQuery, ETL Processing, Data Pipelines, Data Transformation, PyCharm, Ad-Hoc Analytics, Git Repository, JIRA, Systems, Digital Marketing Analytics, Data Visualization, Matlab, Heroku cloud, Agile Methodologies, Alteryx,