Md Islam
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Work Experience

Data Analytics Engineer

Tata Consultancy Services (TCS)   June 2021 – September 2023

- Collaborated closely with customers and internal teams to define complex database migration requirements, ensuring precision and efficiency
- Orchestrated smooth migration from Oracle Database to Microsoft SQL Server using SSMA, executing the conversion of Oracle's PL-SQL code to MSSQL's T-SQL, and conducting rigorous unit testing for flawless implementation
- Designed and implemented high-performance SQL queries for QA testing, optimizing data validation processes
- Led a critical Proof of Concept (POC) on technology compatibility with Azure Kubernetes Service, presenting key findings through impactful POC documents to clients
- Implemented advanced analytics tools (NumPy, Pandas, SQL, and Power BI), delivering precise insights for strategic decision-making
- Engineered visually impactful visualizations with Excel, Python (Matplotlib), and Power BI, optimizing project efficiency in data analytics

Technical & Computer Skills

Core Competencies: NumPy, Pandas, Matplotlib, SQL, Power BI, DAX Language, Power Query, VLOOKUP, Pivot Tables, Data Analysis, Data Modeling, Data Visualization, Data Transformation, Pattern Recognition, Statistics, Data Structure, Object-Oriented Programming, Algorithm Design and Analysis, Scrum, Relational Database Design and Development, Azure Fundamentals

Programming Languages: Python, SQL, HTML, CSS

Software/Tools: Power BI, Tableau, SQL Server Management Studio, Visual Studio, Jupyter Notebook, PyCharm, GitHub, Git, Microsoft Word, Excel, PowerPoint

Databases: Microsoft SQL Server, Oracle Database

Cloud: Microsoft Azure

Operating Systems: Windows

Engineering Projects

Statistical Analysis: 2022-2023 Premier League Season Insights   Completed January 2023

- Performed statistical analysis on the 2022-2023 Premier League season using Python's pandas library
- Extracted, cleaned, and manipulated data from a website to calculate key statistics such as average points, goals, wins and losses, points per game per team and percentage of wins, losses and draws per team
- Visualized data using Python's Matplotlib library

HR Data Analytics Dashboard   Completed April 2023

- Automated HR processes at AtliQ Technologies by building a Data Analytics Dashboard with Power BI
- Analyzed employee working preferences and wellness metrics, developing KPIs using DAX
- Created chart visualizations to display employee activities by date

Integrated Analysis of Transaction, Product, and Demographic Data   Completed January 2023

- Analyzed transaction, product, and demographic data using Python's pandas library
- Cleaned and manipulated data, created new columns, and performed time-based analysis on the transaction data
- Joined demographic data to transaction data and performed analysis on the combined data set

To-Do List, Wayne State University   Completed November 2020

- Developed a web application using Relational Database Management System (RDBMS) which allows users to use and create to-do lists to organize everyday tasks
- Designed an ER-Model and translated the model into Relational Schema

Web Calculator, Wayne State University   Completed March 2020
- Developed a web calculator using HTML and CSS to perform simple calculations, such as addition, subtraction, multiplication, and division
- Incorporated HCI techniques, such as direct manipulation and universal usability

Education & Certifications
Wayne State University, Detroit, MI   August 2017 – May 2021
Bachelor of Science in Computer Science   GPA: 3.6

AZ-900 Microsoft Azure Fundamentals   August 2022
AZ-104 Microsoft Azure Administrator   October 2022