

Aadithya Vidyasagar

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EDUCATION

The University of Texas at Dallas

Master of Science, Business Analytics

Scholar with High Distinction, Pandian Fellowship Scholar Recipient

May 2023

GPA 3.918

Visvesvaraya National Institute of Technology, Nagpur

Bachelor of Technology, Electrical & Electronics Engineering

Nov 2018

PROFESSIONAL EXPERIENCE

Match4Action-CrowdDoing

Aug 2023 – Present

Data Scientist

- Developed and maintained data pipelines using Azure Data Factory to ensure scalable, efficient, and reliable data storage, retrieval, and processing.
- Led the development of a comprehensive data storage solution from inception to execution, involving gathering requirements, documenting needs, and creating a strategic plan.
- Formulated a thorough strategic plan for the data storage project, taking into account scalability, efficiency, and the specific needs of the Catastrophic Wildfire Prevention initiative.
- Implemented SQL for database design and management, ensuring efficient data retrieval and storage.
- Oversaw a team of 15+ volunteers, efficiently assigning tasks and ensuring a 20 % increase in weekly task completion rates. Conducted and led 10+ weekly meetings, resulting in a 30 % improvement in team communication and collaboration.
- Successfully coordinated and facilitated weekly meetings, utilizing tools such as Miro Board for collaborative planning and visualization.

NetApp Inc.

Oct 2020 – Jun 2021

Big Data Analyst

- Engineered and maintained robust ETL (Extract, Transform, Load) processes for revenue data using a combination of SQL and Azure Data Factory, optimizing data processing time by 40%.
- Created revenue reporting dashboards using Excel and Tableau, effectively visualizing key performance indicators (KPIs) and providing real-time revenue analytics to stakeholders.
- Utilized SQL queries and Excel functions to analyze revenue trends, resulting in a 25 % improvement in accuracy and efficiency of revenue calculations.
- Collaborated with cross-functional teams to design and optimize SQL and Azure-based data processing and storage solutions, ensuring efficient retrieval of financial data, leading to a 20% improvement in database performance.
- Streamlined the monthly revenue reporting process by developing standardized templates and workflows, reducing reporting time by 20 % while improving the accuracy and accessibility of revenue data.
- Presented technical insights and performance metrics to stakeholders through clear and concise reports, enabling informed decision-making and supporting strategic planning initiatives.

ITC Infotech India Limited

Feb 2019 – Jun 2020

Associate IT Consultant

- Conducted in-depth analysis of business processes and requirements within the investment banking domain, collaborating with stakeholders to gather and document business needs, resulting in improved overall efficiency.
- Developed comprehensive business requirements documents (BRDs) and functional specifications, ensuring clear and concise communication between business users and technology teams for successful system development and implementation, with a 95 % accuracy rate in translating business requirements into technical specifications.

- Collaborated with data engineering teams to design and optimize SQL database structures, ensuring efficient storage and retrieval of financial data, resulting in a 20 % improvement in database performance.
- Conducted user acceptance testing (UAT) to validate system functionality and ensure alignment with business requirements, coordinating test scenarios and test execution, resulting in a 95 % defect detection rate, successful system implementations, and a 20 % reduction in post-production issues.
- Documented test plans, test cases, and test results, ensuring comprehensive and up-to-date documentation for future reference and audit purposes.

PROJECT EXPERIENCE

On-Premises to Cloud Database Migration - Pyspark, Databricks, Azure Data Lake, SQL

- Designed end-to-end migration of on-premises SQL DB to Azure Cloud using Azure Data Factory.
- Seamlessly integrated on-premises data with Azure Data Lake for efficient movement.
- Utilized Databricks for end-to-end transformation from bronze to gold data containers.
- Implemented dynamic pipeline to track extraction, transformation, and loading.
- Integrated fully transformed data into Azure Synapse for advanced analytics.

Cloud-Enabled Data Analytics for Store Sales Visualization- AWS S3, AWS Athena, Tableau

- Orchestrated the creation of a robust cloud-based infrastructure on AWS, incorporating two S3 buckets for seamless input and output data management.
- Leveraged AWS Athena to efficiently process and transform raw store sales data into structured tables, optimizing queries for enhanced performance and responsiveness.
- Integrated Athena seamlessly with Tableau, producing compelling visualizations that provided stakeholders with valuable insights into US store sales trends across diverse industries and states.

EV Station Location Recommendation - Python, ArcGIS, Excel, Tableau

- Researched, analyzed, and visualized California's charging station model using Tableau.
- Developed a Python-based machine learning model to predict the ideal number of charging stations.
- Integrated geospatial analysis to recommend optimal locations for an efficient EV charging station network.

Financial Markets Analytics - Python, Snowflake Virtual Cloud (Data) Warehouse

- Conducted in-depth stock market data analysis, extracting OHLC data for various stock tickers/symbols and time frames.
- Utilized Snowflake Virtual Warehouse for efficient data storage. Used Python with TA-Lib for technical analysis and developed a custom function to identify ADX and PPO convergence and divergence patterns.
- Analyzed price behavior post-divergence, gaining valuable insights in risk managing trades.

SKILLS

Languages: Python, R Programming, SQL, SAS, STATA

Database & Data Engineering: AWS S3, AWS Athena Azure Data Lake, Azure Databricks, PySpark, Snowflake Cloud DWH (Basics)

IDEs & Tools: Jupyter Notebook, VS Code, RStudio, ArcGIS, Tableau, MS Excel, Alteryx Designer, GitHub

Analytics: Supervised learning, Unsupervised Learning, Data Extraction, Data Exploration, Data Cleaning, Data Modelling, Classification Techniques, Neural Networks, Linear regression, Logistic Regression, Regular Expressions

Business: Pipeline Management, Statistical Analysis, Decision Making, Proficient written and verbal communication, Adaptive thinking, Data-driven Storytelling, Problem Solving