AYUSH UPADHYAY

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EDUCATION

ILLINOIS INSTITUTE OF TECHNOLOGY	**Chicago, IL**
Masters in Computer Science	August 2023 –May 2025
CHARUSAT UNIVERSITY	**Gujarat, India**
Bachelors in Computer Science & Engineering	November 2019 – May 2023

TECHNICAL SKILLS

Programming Skills: Python, R, SQL.

Skills: Data Analysis and Insights, Data Visualization and Reporting, Excel, Data Collection, ETL, Big Data, Data privacy, NoSQL, SQL Server, Data pipelines, Data Security.

Tools & Libraries: Microsoft PowerBI, Tableau, Snowflake, Apache Airflow, PostgreSQL, SQL Server.

Version Control/Management: Git/ GitHub, Atlassian Jira, Azure DevOps.

Cloud & Big Data Technologies : AWS, Azure Synapse Analytics, Azure Data Factory, Databricks.

PROFESSIONAL EXPERIENCE

Data Analyst Intern	**New York, NY**
Extern	May 2024 - August 2024

- Analyzed key performance indicators (KPIs) and large datasets using Google BigQuery on Google Cloud Platform, enhancing data accuracy by 30% through optimized SQL queries.
- Analyzed business metrics across diverse datasets to uncover trends and operational inefficiencies, implementing data-driven solutions that resulted in a 15% increase in performance efficiency.
- Designed and automated reports in Microsoft Power BI, enabling data-driven decision-making and contributing to a 20% increase in user engagement and strategic planning.

Data Science Analyst	**Vadodara, India**
DevKrutiTech.	Nov 2021 - Jun 2023

- Worked closely with stakeholders to define key business metrics and data requirements, ensuring data standardization, automated workflows, and improved cross-team reporting efficiency.
- Developed scalable ETL pipelines in Google BigQuery to streamline the ingestion of a client's high-volume dataset, automating data transformation and reducing processing delays.
- Validated and enriched 30,000+ rows with Python and SQL, reducing error rates from 25% to 15% and ensuring high-quality analysis.
- Implemented machine learning models for data forecasting, leveraging Python (Pandas, NumPy) for trend detection and SQL for data extraction, optimizing workflows and reducing processing time from 15 to 12 minutes per batch.
- Designed 10+ interactive Tableau dashboards, translating raw data into insights and reducing stakeholder decision time by 20%.

PROJECTS

Amazon Sales Performance Analysis:

- Cleaned and processed a dataset of 10,000+ records in MySQL, using SQL to remove errors and enhance data accuracy by 20%. Mapped 10+ key performance indicators (KPIs) based on project requirements and designed a dashboard wireframe to structure the final visualization.
- Built 15+ Tableau visualizations with calculated fields and charts, tracking sales by region and product. Integrated four dashboards, improving insights by 10% and reducing analysis time by 30%.

Data Professionals: A Survey-Driven Analysis:

- Leveraged Google's BigQuery to optimize and clean more than 1,500 records in the Data Professional Survey dataset, ensuring accuracy for subsequent analysis.
- Improved data integrity by conducting thorough data cleaning and validation with Google BigQuery, addressing inconsistencies, missing values, and duplicates to ensure a high-quality dataset. Executed data analysis and constructed a comprehensive dashboard using Power BI.

DataStreamETL Framework:

- Designed and implemented an end-to-end ETL pipeline to extract data from an API, transform it, and load it into PostgreSQL for analysis, ensuring scalable and reliable data processing.
- Automated daily workflows using Apache Airflow and Python, handling JSON data, performing data cleaning, and structuring data for optimized storage and querying.
- Containerized the pipeline with Docker and deployed it on AWS, achieving 100% data accuracy through robust validation.