

# ADITYA MATTAPARTHI

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## SKILLS

<b>Technologies</b>	: Java, Python, SQL, MySQL, PostgreSQL, Azure SQL, Google Big Query, AWS S3, MongoDB
<b>Big Data Tools</b>	: Hadoop, SQL, ETL, Scala, Kafka, Linux, Spark, Cassandra, Jupyter, Numpy, Hive, SAS
<b>Developer Tools</b>	: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse
<b>Visualization/Automation</b>	: Power BI, Tableau, Jenkins, Qlik, Selenium, Alteryx, ER Studio, Talend, R Studio, Airflow
<b>Machine Learning</b>	: Data Mining, Hypothesis Testing, Decision Modeling, Cloud Computing, CRM, Descriptive Analysis
<b>Soft skills</b>	: Decision Making, Problem Solving, Oral/Written Communication, Team Work, Customer Service

## EXPERIENCE

### Northeastern University

Sep 2023 – Present

*Data Analyst and Instructional Assistant*

*Boston, MA*

- Teamed with faculty, administrators to implement a data-driven early warning system for **800+ students**, analyzing 10+ student academic metrics, which led to a **25% reduction** in course failures & **10% increase** in pass rates improvement across the institution
- Spearheaded an attendance automation initiative, utilizing Python scripting to cut manual efforts by **70%** and saved **10 hours** weekly
- Developed impactful Power BI dashboards, enabling faculty to make data-driven decisions & boosting student engagement by **35%**

### Tata Consultancy Services

Jan 2021 – Jul 2022

*Data Engineer*

*Mumbai, India*

- Conceptualized and designed a robust database system for generating **monthly/yearly reports**, conducting in-depth analysis of automobile data from over **2500+ dealerships** for the FCA group in the USA and Canada regions
- Optimized data processing for sales across the USA and Canada regions by implementing & monitoring clustered/non-clustered indexes & pivot tables, reducing processing time from **5-10 minutes** to **30-40 seconds** while improving data quality by **15%**
- Achieved a **10% efficiency** improvement through expert deployment of efficient back-end SQL code solutions and data pipelines
- Orchestrated and coordinated **cross-functional teams** to design, implement, and support high-impact applications, optimizing development speed through **ETL pipelines** and seamless data integration, resulting in a **20% reduction** in development time
- Conducted comprehensive reviews of **data models** & reporting requirements collaboratively, resulting in the design and construction of robust logical & physical data models to support **data marts**, data warehouse, while supporting leadership in **decision-making**
- Generated insights via queries & visualizations for in-depth dealership sales analysis, tracked KPIs, and saved **80** manual labor hours
- Led sprint planning, execution, daily scrum in an Agile Methodology, reported bugs via JIRA, and improved team efficiency by **15%**

### Trivia Softwares

Dec 2018 – Mar 2019

*Data Analyst Intern*

*Mumbai, India*

- Extracted marketing insights, fueling a **15% efficiency** surge in campaign strategies and guiding data-driven decisions for clients
- Consolidated insights from **150+ reports**, leading to a **50% improvement** in pinpointing key metrics and report optimization areas
- Executed SQL queries and stored procedures, slashing data redundancy by **20%**, eliminating over **500** outdated & irrelevant records
- Anticipated peak season ticket surge, optimized **resource allocation**, & phased replenishment cycle to ensure compliance with SLAs

## PROJECTS

### New York Food Inspections | *ER Studio, Talend, Alteryx, Draw.io, MySQL, SSMS, Postgres, PowerBI*

Dec 2023 - Jan 2024

- Executed data profiling on **2M+ records** using Alteryx, preprocessed the data, and identified variations, unique, and duplicate values
- Implemented **ETL workflows** and merged data from Excel & GCP Big Query, used joins, and loaded it into the **target warehouse**

### Social Media Analytics | *Git, Python, NLP, BERT, Data dictionaries, Topic Modeling*

Sep 2023 - Dec 2023

- Extracted & processed **10,000** Reddit comments using API to perform **sentiment analysis**
- Engineered a **BERT** model to assess game popularity, achieving **96.4%** precision in categorizing sentiments & performed **topic modeling**

### Real-time Flight Delay Prediction | *Machine Learning, Python, Tableau, Predictive models*

Aug 2023 - Oct 2023

- Analyzed Bureau of Transportation Statistics (BTS) flight data, using ML to predict delays with **90% accuracy** revealing optimal travel times & safe US regions based on day/time & location
- Crafted **live Tableau dashboards** revealing delay insights, popular destinations, top airlines, and travel optimization strategies

## EDUCATION

### Northeastern University, Boston, MA

GPA: 3.9/4.0

*Masters of Science in Information Systems*

*Expected 2024*

### Ramrao Adhik Institute of Technology, Mumbai, India

GPA: 3.7/4.0

*Bachelor of Engineering in Information Technology*

*Aug 2016 – Oct 2020*