

# ADITI MISHRA

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## SUMMARY

Experienced Data Engineer with **2+ years** of expertise, specializing in ETL development, data warehousing and business intelligence. Demonstrated skills in Cloud computing, optimizing data pipelines and using SQL and Tableau to deliver scalable data solutions.

## WORK EXPERIENCE

### Data Engineer, IBM

June 2022 - August 2024

- Designed and optimized large-scale **ETL pipelines** using **Hadoop, Spark, and SQL**, improving **data availability by 30%** and reducing **latency by 25%** for advanced analytics.
- Developed and maintained scalable **data processing solutions**, integrating **structured and unstructured data** to support **real-time** and batch workloads across cloud platforms.
- Enhancing query performance **SQL queries and data models**, and **processing efficiency** for handling billions of records, enabling faster business insights.
- Built APIs for efficient data access, reducing **retrieval time by 25%**, and collaborated with cross-functional teams to ensure **data integrity**, quality, and compliance.

### Lead of AI/ML/Data Science, Google

September 2021 - June 2022

- Led students on **building data pipelines and machine learning models** for real-world applications.
- Guided teams in designing and implementing **ETL workflows**, ensuring **efficient data processing and integration** for AI-driven projects.
- Data visualization using Tableau**, enabling teams to **present insights effectively** and drive data-driven decision-making.
- Collaborated on **end-to-end data projects**, applying **big data technologies** and best practices to enhance **model performance and scalability**.

## TECHNICAL SKILLS

**Data Engineering:** Python, JavaScript, Docker, Kubernetes, Hadoop, Spark, Cassandra, Git, Cloud

**Data Analysis & Visualization:** Matplotlib, Tableau, R, Predictive Modeling, Hypothesis Testing, Regression

**Database:** MS SQL Server, MySQL, PostgreSQL, Oracle SQL

**Frameworks:** TensorFlow, Scikit-learn, Pandas, NumPy, Scipy, Matplotlib, Seaborn

## CERTIFICATIONS

- Apache Spark: Databricks Certified Associate Developer Apache Spark3. September 2022
- Cloud: 30 Days Google Cloud April 2022
- Machine Learning: IBM Machine Learning with Python December 2022

## PROJECTS

### Exploring Fuel Efficiency (MPG) | Feature Engineering, Regression Analysis

September 2024 - October 2024

- Conducted feature engineering and regression analysis to predict MPG, achieving 90% accuracy and identifying key factors affecting fuel efficiency.
- Optimized model performance through data preprocessing, outlier detection, and feature selection, improving interpretability and prediction reliability.

### KMeans Visualization | Clustering, Python, Matplotlib

July 2024 - August 2024

- Implemented the KMeans clustering algorithm from scratch, partitioning randomly generated data points into specified clusters.
- Created an animated visualization to demonstrate centroid convergence and data separation in clustering.

### Password Manager | JavaScript, Python

May 2024 - June 2024

- Designed a secure, three-tier password management system integrating a Flask-based backend, Chrome extension, and Expo mobile app.
- Implemented encrypted credential storage and seamless authentication, enhancing security and accessibility for users.

## EDUCATION

Clark University, Worcester, United States of America

August 2024 - December 2025

**Masters of Science in Data Analytics**

**CGPA: 3.7/4**

Relevant Courses: Machine Learning, Deep Learning, Natural Language Processing, Big Data Technologies, Cloud computing

Dr. Abdul Kalam Technical University, Uttar Pradesh, India

August 2018 - June 2022

**Bachelor of Technology in Electronics Engineering**

**CGPA: 3.4/4**

Relevant Courses: Digital Signal Processing, Communication Systems, Data Structures & Algorithms, Probability & Statistics