Mayur Jain

Data Science - Data Engineer - DevOps Engineer

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Professional Summary

Dynamic and results-oriented CS professional with 4+ years of experience in Data Science, Data Engineering, and DevOps Engineer. Proven expertise in designing and deploying scalable data pipelines, building machine learning models, and integrating data-driven solutions for diverse industries. Adept in leveraging advanced tools and technologies such as Python, SQL, PySpark, AWS, Airflow, and Tableau to deliver impactful insights and optimize workflows. Skilled in collaborating with cross-functional teams and stakeholders to align technical solutions with business objectives, driving measurable value for clients

Education

California State University Long Beach   *California, USA*
Master of Science in Computer Science   *2023 - 2025*

Guru Tegh Bahadur Institute of Technology   *New Delhi, INDIA*
Bachelor of Technology in Information Technology   *2015 - 2019*

Professional Experience

California State University Long Beach   *California, USA*
Student Assistant - ID Card Services   *2024 - Present*

- Provided high-quality service to more than 500 students and staff annually, managing inquiries and completing 95% of assigned projects within deadlines.

- Successfully completed 50+ special projects assigned by supervisors, consistently meeting deadlines while maintaining regular duties with 100% efficiency.

- Supported administrative staff with data entry tasks, achieving accuracy 99% in record keeping systems, contributing to improved operational reliability.

ZS Associates   *Delhi, IN*
Business Technology Consultant   *2022 - 2023*
Client: Merck and Janssen

- Built and optimized deep learning models for healthcare segmentation, increasing processing efficiency by 45%, enabling faster decision-making for over 1,000 healthcare providers.

- Build and deployed over 100 real-time data pipelines, improving data flow efficiency and reducing manual data handling by 30%, with APIs and ML frameworks, significantly enhancing client insights.

- Conducted 10+ presentations to clients, driving a 30% increase in platform adoption by showcasing data integration and AI-driven solutions tailored to meet client needs.

Tata Consultancy Services   *Delhi, IN*
System Engineer   *2019 - 2022*
Client: Lloyds Banking Group

- Developed a Python-based automation solution that reduced support tickets by 40%, achieving time savings of 500+ hours per year across the support team.

- Led collaborative resolution of technical issues, achieving a 95% user satisfaction rate and reducing response times by 25%, demonstrating strong ambidexterity and empathy in client interactions.

- Designed and implemented machine learning models with enhanced security measures, resulting in a 20% decrease in data breaches and aligning solutions with OWASP's top 10 security frameworks.

Technical Skills

- **Programming Languages**: **Python**, **PySpark**, **SQL**, **Linux**, **Git**, **Java**, **C++**

- **Data Science & ML**: **Pandas**, **Numpy**, Dataiku, Kafka, Hadoop, BigML, **SAS**

- **Cloud & DevOps**: Intruder, **AWS**, **Azure**, Docker, Kubernetes, Jenkins, SonarQube, Wireshark

- **Data Engineering Tools**: **Airflow**, **ADF**, **DataBricks**, Redshift, GitLab, **PyTorch**, **Tableau**

Projects

Real-Time Credit Card Fraud Detection System   *CSULB Class Project Lead*
https://github.com/mayurjainf007/Credit_Card_Fraud_Detection
Description: Project demonstrates the performance of real-time credit card fraud detection using Apache Kafka, Spark Streaming, and Flask. The system dynamically adapts to schema changes in the input dataset, detects fraudulent transactions in real-time, and displays the results on a web dashboard.

Code Smell Detection   *Personal Project*
https://github.com/mayurjainf007/CodeSmell
Description: Code smells are indicators of potential structural weaknesses in code that could lead to maintainability and scalability issues. While not bugs, they make the code more complex and harder to modify. Detecting code smells manually is both time consuming and subjective. Therefore, automated solutions are essential, especially in large-scale projects.

Emotion and Gender Classification   *GTBIT Major Project*
https://github.com/mayurjainf007/Emotion-Gender-Classification
Description: Developed a real-time video analysis system using neural networks to classify emotions in seven categories, achieving 89% accuracy. Enhanced classification speed by 25% with optimized algorithms (LSTM, SVM).

Face Detection System   *GTBIT Bachelor Project*
https://github.com/mayurjainf007/Face-Detection
Description: Designed a deep learning model for multi-face detection with a 95% accuracy rate. Applied advanced techniques in hyperparameter tuning, reducing false positives by 30%.

Twitter Sentiment Analysis Pipeline   *Personal Project*
https://github.com/mayurjainf007/Apache-Airflow-and-Machine-Learning
Description: Built an Apache Airflow pipeline for processing Twitter data, utilizing AWS for storage and retrieval, showcasing the ability to integrate APIs, manage large data, and execute end-to-end solutions.

Certifications

Microsoft Azure Certification
https://www.credly.com/users/mayur-jain.5407c33e
Google Cloud Platform Certification
https://googlecourses.qwiklabs.com/public_profiles/955c47df-2ca5-4f1e-ab53-465b0889821f
Python/Machine Learning (TCSion)
Big Data/ Hadoop (TCSion)
Core + Advanced Java: Exception Handling, Threading, Java Script