Harshada Santosh Jadhav

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EDUCATION

California State University, Los Angeles | **Aug 2023 – May 2024**
Master of Science in Computer Science | *GPA: 3.51/4.0*

Savitribai Phule Pune University, Pune | **July 2017 – April 2021**
Bachelor of Engineering in Computer Engineering | *GPA: 3.85/4.0*

EXPERIENCE

Abzooba India Infotech Pvt. Ltd. | **June 2021 - June 2023**
Big Data and Cloud Junior Developer | *Pune, Maharashtra, India*

- Worked on a comprehensive end-to-end ETL pipeline leveraging AWS services, including Glue, RDS, S3, Lambda, Athena, OpenSearch, and EC2 to speed up data processing processes for 100 GBs of data using Python and PySpark.
- Improved data analysis capabilities using Microsoft Suite, allowing the organization to make data-driven decisions for handling 1-5 billion records and identifying significant business insights.
- Optimized ETL processes by implementing advanced techniques, debugging, and backtracking within a CI/CD framework, resulting in a 40% reduction in data processing time and a 25% increase in overall data accuracy.
- Analyzed datasets in PySpark, transforming complex nested JSON, text, and CSV files into actionable insights for stakeholders. Delivered actionable insights, enabling data-driven decision-making while following Agile development methodology.
- Collaboratively enhanced performance by 60% through advanced PySpark coding and efficient querying of RDS with SQL and PostgreSQL, gaining insights into working on APIs.

SKILLS

- Programming Languages/Frameworks: Python, Apache Spark, PySpark
- Data Engineering and Analytics: SQL, MySQL, PostgreSQL, RDS, Database Management, Data Analytics, Data Analysis, Data Processing, and Stored Procedures
- Web Development: HTML/CSS, JavaScript, Dash Framework, Tableau, Data Visualization
- Cloud Services: Amazon Web Services (AWS), Microsoft Azure
- Operating Systems: Windows, Linux, macOS
- Tools: GraphQL, GitHub, Actian Data Connect, Databricks, PowerBI
- Languages Known: English, Hindi, Marathi

PROJECTS

Crime Data Analysis and Visualization
Python, SQL, Tableau, Pandas, NumPy | *March 2025 – April 2025*

- Cleaned and standardized over 1M LAPD crime records, enhancing dataset reliability by 25% through systematic preprocessing, including missing value treatment, duplicate removal, and data normalization.
- Designed and published dynamic Tableau dashboards and graphs, visualizing crime distribution across Los Angeles and highlighting key patterns through geospatial maps, time series trends, and categorical breakdowns.

Natural Language Processing (NLP) for SQL Query Conversion using Deep Learning
Python, SQL, Dash Framework | *December 2020 – May 2021*

- Designed and implemented a system to convert natural language queries into executable SQL queries, improving query comprehension and execution efficiency for non-technical users.
- Leveraged LSTM (Long Short-Term Memory) models to support the generation of basic SQL queries, including relational operators, GROUP BY, WHERE clauses, aggregate functions, DISTINCT clauses, and COUNT operations, achieving a 75% increase in query accuracy and streamlined data retrieval.

Customer Segmentation
Python, Java, Dash Framework, Data Analysis, Machine Learning | *June 2020 – November 2020*

- Executed Customer Segmentation: To identify key insights that can boost sales by 50%, market basket analysis and K-Means Clustering techniques were employed to create consumer segmentation.
- In-Depth Data Analysis: Utilized machine learning algorithms to perform comprehensive data analysis on an online retail dataset, revealing significant patterns and behavioral trends within the data.

Data Analysis
Python, Data Analysis, Dash Framework, Machine Learning | *June 2019 – November 2019*

- Conducted Data Analysis: Designed an interactive suicide rate dashboard using the Dash framework, visualizing 10 years of Indian suicide data and trends.

CERTIFICATIONS & RECOGNITION

- Microsoft Certified: Azure Fundamentals (by Microsoft)