

Aashka Dave

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EDUCATION

Arizona State University | Master of Science, Computer Science (GPA: 4.00/4.00)

August 2022 - May 2024

Relevant Courses - Data Processing at Scale, Cloud Computing, Data Intensive Systems for Machine Learning, Software Design

NMIMS University | Bachelor of Technology, Computer Engineering (GPA: 3.95/4.00)

July 2018 - June 2022

Minor in Artificial Intelligence and Machine Learning

SKILL SUMMARY

Languages: Python, R, SQL (Postgres, MS-SQL, MySQL), Java

Frameworks: PyTorch, Sklearn, Tensorflow, Pandas, Numpy, OpenCV, Node.js, Flask, Django, Bootstrap

Tools: Amazon Web Services (AWS), Google Cloud Platform (GCP), SQL Server, Tableau, PowerBI, Git, Docker, Kubernetes, LangChain

Others: Data Modeling, Agile (Scrum/Kanban), SOLID, Design Patterns, Machine Learning, Data Analysis

WORK EXPERIENCE

AI/ML Engineer | Arizona State University

July 2024 - Present

- Developing and deploying advanced machine learning models for body shape classification and personalized styling recommendations using PyTorch and TensorFlow, enabling accurate personalization with an 85%+ classification accuracy.
- Engineering and optimizing a scalable data pipeline to process over 2000+ body measurements using Python and Spark, to enhance data integration for real-time insights and reducing preprocessing time.
- Partnering with engineering teams to ensure data integrity and improve real-time insights into customer performance metrics.

Data Analyst | Arizona State University

June 2023 - May 2024

- Created and maintained dashboards in Tableau and RStudio to provide clear, actionable insights for operations and decision-making, impacting stakeholders across planning and finance teams.
- Engineered and analyzed large-scale datasets using Python and SQL, optimizing data pipeline efficiency by 30%.
- Integrated NLP and machine learning models to automate text analysis and reduce manual data-processing time by 60%.

Data Science Intern | NTT Data

May 2021 - July 2021

- Engineered a UiPath RPA bot to automate the data extraction process for various network devices, increasing efficiency by 50%.
- Created custom workflows using the .NET framework for real-time monitoring of log data, collaborating with cross-functional teams to streamline operations and enable accurate, timely insights for predictive maintenance.
- Implemented an LSTM-based time series forecasting model with TensorFlow to analyze log data, resulting in a 20% improvement in predictive accuracy and supporting proactive measures to reduce device downtime.

PROJECTS

Comprehensive Data Pipeline for Traffic Insights

January 2023 - May 2023

- Developed an end-to-end data pipeline on GCP for processing terabytes of New York TLC data with auto-scaling capabilities, using Docker for containerization, Spark for distributed processing, and Kafka for real-time streaming.
- Applied time series analysis methods to identify temporal patterns in taxi demand, improving predictive accuracy by 30%, and executed spatial queries using SparkSQL and Scala to derive key geographic insights for optimization.
- Built machine learning models using Spark's MLlib library in Scala, resulting in a 15% improvement in forecasting accuracy for taxi demand, leveraging historical data and external factors to drive better decision-making.

AI-Powered Social Media Analytics and Benchmarking

August 2021 - March 2022

- Developed an intuitive platform for social media analytics using Python's Django framework, enabling users to gain actionable insights from Twitter data and drive informed decision-making in their marketing strategies.
- Designed and implemented an interactive self-service dashboard using Dash and Plotly, to monitor key performance measures, facilitating a 30% improvement in the interpretation of key performance metrics and user engagement patterns.
- Implemented modules for NLP-driven topic analysis, a machine learning-based hashtag recommendation system, and ranking algorithms for calculating influencer scores, providing insights for enhanced user engagement and strategic planning.

LEADERSHIP

- **Public Relations Executive, ACM Chapter, NMIMS:** Amplified the ACM Chapter's impact by adeptly managing communication and elevating event promotion strategies.

CERTIFICATION

- **Google Business Intelligence Professional Certificate:** Skills - Data Modeling, Business Analysis, Data Analysis, ETL, Business Process, Tableau Software, Data Visualization (DataViz), Business Intelligence, Dashboarding, and Reporting