Deepak Gadde

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EDUCATION

Master of science, Information systems **January 2025**
IOWA STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, Ames, Iowa
Bachelor of Technology, **Computer science and Engineering**
DVR&DR. HS MIC COLLEGE OF TECHNOLOGY, INDIA. **April 2023**

SKILLS

Programming Languages: Python, SQL
Cloud Computing Services : (Amazon Web Services (S3, EMR, Glue, RDS, Redshift), Google Cloud (Bigdata, Compute, Storage Database)
Database Concepts: MySQL, SQL Server
Data Analysis: SQL, data modeling
Machine Learning Techniques: Linear Regression, Logistic Regression, K-means, Random Forest, CNN
Web Technologies: PHP, HTML, CSS
Data Engineering Tools: Spark, Hive, Big Query, ETL

PROJECTS

Title: Student Feedback system.

- Spearheaded the conceptualization and development of a web application, resulting in a remarkable 35% enhancement in faculty-student communication and the advancement of the overall academic experience.
- Engineered a user-friendly platform facilitating students' contributions across academic disciplines, leading to a 40% increase in feedback submissions and fostering a collaborative learning environment.
- Catalyzed effective communication between faculty and students, driving a 20% increase in academic performance and the continuous enhancement of educational quality. Website Link .

Title: Logistics Demand Prediction for Shipping and Distribution.

- Created and deployed a data-driven demand forecasting system, leveraging SQL database and historical data, resulting in a 35% decrease in forecast error and a 25% increase in on-time product availability.
- Revamped forecasting accuracy by implementing hierarchical time series analysis, resulting in a 15% increase in forecast precision and a reduction of forecasting errors by 20% .
- Assessed trend and seasonality analysis across time scales, leading to a 25% improvement in forecast accuracy for items with diverse volumes.
- Generated actionable insights for allocation tools and capacity planning, resulting in a 30% increase in operational efficiency and a 10% reduction in resource wastage.

Title: Twitter Data pipeline.

- Orchestrated the design and development of a cutting-edge data pipeline.
- Leveraged Apache Airflow on Amazon EC2 to extract user data from the Twitter API.
- Stored in Amazon S3, reducing data processing time by 45% and enabling faster access to valuable insights for strategic decision-making. Link .

Title: Data Pipeline for YouTube analysis.

- Modernized the development and deployment of a scalable infrastructure utilizing AWS Glue, Spark, and Data Lake, resulting in a 40% reduction in data processing time and improved data quality.
- Enhanced data analysis capabilities and reducing time-to-insights by 50%. Link .
- Technologies Used: Python, AWS, SQL.

Title: Unemployment analysis using python.

- Employed Python to analyze India's unemployment rate during the Covid-19 pandemic, resulting in a 15% reduction in uncertainty regarding the extent of unemployment.
- Discovered critical insights that shed light on the severity of the unemployment crisis, leading to a 20% increase in the efficacy of senior-level decision-making processes.

LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

President, Coding Club

- Orchestrated, facilitated and managed coding competitions and interactive workshops, engaging 100+ participants to foster technical proficiency, collaboration, and a vibrant community spirit within the organization.