MANISH REDDY GOLI

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EDUCATION

University of Southern Mississippi | Hattiesburg, MS   **Aug 2023 - May 2025**
Masters in Computer Science | Grade: 3.925/4
Osmania University | Hyderabad, India   **Aug 2019 – Jun 2023**
Bachelors of Engineering in Computer Science and Engineering |Grade: 3.8/4

TECHNICAL SKILLS

- **Languages:** Python (Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch), C/C++, SQL, R, Java (Basics).
- **Front-End:** HTML5, CSS, Bootstrap, JavaScript, React.js, TypeScript.
- **Databases:** MySQL, PostgreSQL, MongoDB, Microsoft SQL Server, Oracle.
- **Cloud:** AWS (EC2, S3, Lambda, ECS, DynamoDB), Azure (App Services, SQL Server, Functions), Docker, CI/CD.
- **Data Engineering Tools:** Apache Airflow, Talend, ETL, Data Warehousing, Data Modeling, Tableau, Power BI
- **Tools & Methodologies**: Apache Hadoop, Apache Spark, Kafka, JIRA, Agile, System Design, Redis.

WORK EXPERIENCE

Graduate Assistant | University of Southern Mississippi   **Aug 2024 - Present**
- Facilitated 20+ computer hardware and software malfunctions weekly, decreasing student downtime by 30% and enabling continuous access to essential academic resources and a smooth learning environment.
- Implemented Python-based data validation checks, reducing data errors by 25% and improving the reliability of research findings to Communicate the three biggest causes of crashes in the lab.
- Pioneered ETL pipeline optimization with Python, cutting data preprocessing time by 30% and resolving 15+ technical issues weekly, while guiding 10+ students in Python fundamentals.

Data Engineer |Internship | ToursLog | Remote |India   **Jun 2022 – May 2023**
- Migrated and optimized large-scale data pipelines from Cloudera to AWS (EMR, S3, Redshift), improving data accessibility, scalability, and throughput for real-time decision-making.
- Streamlined data pipelines by optimizing Spark scripts through caching and serialization techniques, decreasing processing time by 30% and improving workflow reliability across critical data transformation jobs.
- Led the automation of ETL workflows with Apache Airflow, with resulting in a 40% reduction in data processing time and improved system uptime to 99.9% while standardizing data engineering principles.
- Architected resilient data pipelines utilizing PySpark, SQL, HBase, and Kafka, partnering with business intelligence and data science teams that reduced data processing latency by 30%, which enabled real-time analytics dashboards for stakeholders, enhancing decision-making.
- Implemented robust monitoring and alerting mechanisms using Prometheus and Grafana, proactively identifying pipeline inefficiencies and reducing system failures by 25%, ensuring seamless data operations.
- Visualized key performance indicators using Tableau, creating 15+ dashboards that tracked user engagement and conversion rates, informing marketing strategies and improving customer acquisition cost by 15%.

PROJECTS

Scalable ETL Pipeline for Retail Sales Data Processing   **Aug 2024 – Dec 2024**
- Executed five distinct ETL workflows to consolidate sales data from CSV files and APIs into a unified MySQL, PostgreSQL database, delivering comprehensive sales performance dashboards using Tableau and Power BI.

Stock Price Prediction System with Machine Learning   **Jan 2024 – May 2024**
- Developed a predictive modeling system for stock prices by extracting, cleaning, and transforming financial data from Yahoo Finance APIs, achieving a data processing speed of 5,000 data points per minute.
- Designed a stock price prediction system leveraging Linear Regression, LSTM, and XGBoost, achieving 15% more accurate predictions than previous models, and presenting through Flask and Docker.

CERTIFICATIONS

- Python Proficiency Certification.
- AWS Certified Data Engineer - Associate.
- Database Programming with SQL Certification.
- Certified in Java Fundamentals – Oracle Academy.