MADASUSIVAPRASAD

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| Kurnool, Andhra Pradesh, India |

PROFESSIONAL SUMMARY

Innovative **Electronics and Communication Engineering (ECE) graduate** specializing in **Data Engineering, Big Data, and Cloud Technologies**. Proficient in **Python, SQL, PySpark, AWS, and Snowflake**, with hands-on experience in **ETL pipeline development, data modeling, and real-time data processing**. Skilled at designing **scalable, high-performance data architectures** and optimizing data workflows to enable **data-driven decision-making** in dynamic environments.

EDUCATION

Bachelor of Technology – Electronics and Communication
G. Pullaiah Engineering College, Kurnool
2019 – 2024 | CGPA: 6.50

TECHNICAL SKILLS

- **Programming Languages:** Python, C
- **Databases:** SQL Server, MySQL, Snowflake
- **Web Technologies:** HTML, CSS, JAVASCRIPT
- **Big Data & Cloud:** PySpark, AWS (Glue, Lambda, S3, DynamoDB, SNS, SQS)
- **Cybersecurity:** Basic knowledge of protocols & best practices
- **Data Visualization & Tools:** Power BI, MS Word, MS Excel
- **Developer Tools:** VS Code, Jupiter Notebook
- **Soft Skills:** Analytical Thinking, Problem Solving, Attention to Detail, Collaboration, Adaptability

PROJECT EXPERIENCE

ETL Pipeline Development Using AWS Glue — Data Engineering Project
2025 | Kurnool, Andhra Pradesh

- Engineered a **scalable ETL pipeline** using **AWS Glue** and **PySpark** to process and load **100K+ records daily** into **Snowflake**.
- Automated data cataloging and schema detection using **AWS Glue Crawlers**, reducing manual intervention by **70%**.
- Optimized Spark transformations, improving overall data processing speed by **35%**.
- Designed a **robust error-handling mechanism** to ensure **99.9% pipeline reliability**.

Real-Time Data Processing Using AWS Lambda — Cloud Based ETL
2025 | Kurnool, Andhra Pradesh

- Built a **serverless ETL workflow** using **AWS Lambda** to process **real-time streaming data** from **Amazon S3** into downstream analytics systems.
- Integrated **Amazon SNS** for automated notifications and **Amazon SQS** for asynchronous message handling.
- Achieved **40% cost savings** by leveraging an **event-driven architecture** compared to traditional batch processing.
- Reduced processing latency to **under 5 seconds per event**, ensuring near-instant data availability.
- Implemented **CloudWatch monitoring and logging** to track pipeline performance and detect failures in real time

Retail Data Visualization Dashboard — Business Insights Platform
2025 | Tata Job Simulation

- Developed an **interactive Power BI dashboard** for analyzing **sales, revenue, and customer behavior**, empowering leadership with actionable insights.
- Cleaned, transformed, and aggregated **50K+ data points** using **Python (Pandas)** and **SQL** for seamless visualization.
- Designed KPIs and drill-down charts, enabling **real-time decision-making** across business units.
- Increased report generation efficiency by **60%** compared to manual Excel-based workflows.

Secure Online Banking System— Cybersecurity
Project 2024 | Kurnool, Andhra Pradesh

- Developed a **secure online banking application** using Flask, implementing **password hashing (bcrypt)** and **JWT-based session management** to ensure strong authentication and secure access control.
- I Designed and integrated **fault-tolerant banking operations**, including balance retrieval and secure fund transfers, with full transaction logging using SQL Alchemy models.
- Implemented multiple **cybersecurity best practices** including encrypted tokens, input validation, safe error handling, session expiration, and prevention of unauthorized access**.**
- Built a modular, production-ready architecture with **secure APIs**, database models, environment-based configuration, and end-to-end handling of sensitive financial data.

CERTIFICATIONS

- **Cybersecurity Fundamentals— Exaltica.in** | Learned **cybersecurity best practices**, including **secure authentication, data encryption, and threat mitigation techniques**.
- **Retail Data Visualization Dashboard — Business Insights Platform— Forage |** Built an **interactive Power BI dashboard** and performed **data analysis** to deliver actionable insights for business growth.