

# SRIDHAR SOMISETTI

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## Summary

Computer Science undergraduate with proven experience in Data Science and Machine Learning, developing predictive models and deploying AI pipelines. Proficient in Python, SQL, and statistical analysis, with a track record of transforming raw data into meaningful insights. Focused on applying technical expertise to solve complex data challenges across real-world business environments.

## Technical Skills

<b>Programming Languages</b>	Python, Java, SQL
<b>Machine Learning</b>	Regression, Classification, NLP, Time Series Forecasting, Neural Networks
<b>Frameworks &amp; Tools</b>	TensorFlow, Scikit-learn, Keras, XGBoost, Flask, Django, React, Transformers
<b>Cloud &amp; Data</b>	AWS, Google Cloud, MySQL, MongoDB, Wix Studio, Git
<b>Development Practices</b>	Agile, CI/CD, API Development

## Projects

### Insider Trading Detector via Graph Analytics and NLP

- Analyzed 10,000+ financial news articles to construct a social graph connecting traders, executives, and firms.
- Detected 3 highly suspicious insider trades every month, reducing compliance review time significantly by 40%.
- Developed custom NER pipeline achieving 92% precision to extract trader-firm relationship patterns.
- Automated compliance reporting using Flask API accelerating trade review across 10,000+ financial documents.

*Technologies: Python, NetworkX, spaCy, BeautifulSoup, Flask, SQL*

### Trade Failure Root Cause Analysis Engine

- Processed over 500,000 historical trades for training a multi-class root cause classifier (89% accuracy).
- Reduced incident resolution time drastically from 4 hours down to just 2 minutes using alerts.
- Mapped 500+ historical failed trades to corrective actions, generating automated remediation playbooks and reducing manual intervention time by 60%, deployed via AWS Lambda.

*Technologies: Python, scikit-learn, regex, Flask, AWS Lambda, MongoDB*

### ESG Sentiment Screener for Portfolio Analysts

- Scraped 100+ company reports, financial news articles, and regulatory filings for ESG score computation.
- Built hybrid sentiment analysis model combining VADER and custom lexicons to achieve 93% agreement.
- Automated complete ESG profiling process, saving portfolio analysts nearly 10 hours every week.

*Technologies: Python, BeautifulSoup, VADER, NLP, Streamlit*

### Real-Time Credit Card Fraud Detection API

- Processed 1 million financial transactions using hybrid fraud model combining XGBoost and Isolation Forest.
- Achieved 97.2% fraud detection accuracy, simultaneously reducing false positives by 30%.
- Deployed real-time fraud detection API processing 1M+ transactions with 97.2% fraud detection accuracy.

*Technologies: Python, XGBoost, Isolation Forest, Flask, AWS Lambda*

## Education

### VIT-AP University

2022 - 2026

B.Tech in Computer Science and Engineering

CGPA: 8.87

Relevant Coursework: Machine Learning, Deep Learning, Data Analytics, NLP, NoSQL Databases

## Certifications

AWS Certified Cloud Practitioner	Meta Back-end Developer Professional Certificate
IBM Data Science Certification	Artificial Intelligence using Google TensorFlow
IBM Deep Learning Certification	Teachnook Artificial Intelligence Workshop

## Activities

Technical Team Lead - Mansi Club, R&D Co-Lead - Photon Club, 3rd Place - Null Chapter Capture The Flag, Co-Organizer - Null x Microsoft Student Chapter Hackathon, Special Mentions Monitor - CSI Chapter