

# Marepalli Santhosh

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🌐 Portfolio

🌐 LinkedIn

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## EDUCATION

### ADITYA COLLEGE OF ENGINEERING AND TECHNOLOGY

B.TECH IN AIML

2022-2025 | SURAMPALEM, AP

### DVR JR.COLLEGE

MPC

2020-2022 | NANDIGAMA, AP

## SKILLS

### LANGUAGES

Python • SQL • Java • C++ • Shell

### DATA SCIENCE & ML

Scikit-learn • Pandas • NumPy •

TensorFlow • NLTK • Matplotlib •

Seaborn • Tableau

### DEVELOPER TOOLS

Git • GitHub • Jupyter • Flask • Docker

### SOFT SKILLS

Communication • Team Collaboration •

Problem Solving • Time Management

## SUMMARY

- Data science and ML enthusiast with 2 internships and 3 end-to-end projects.
- Strong foundations in time series, NLP, and algorithmic trading.
- Proficient in Python, TensorFlow; familiar with deploying models and dashboards.

## EXPERIENCE

### EDUNET FOUNDATION 🔗 | AIML TRAINEE INTERN

May 2024 – Jun 2024 | Remote

- Completed intensive 6-week training in practical model development, data analysis, and ML principles.
- Utilized the IBM SkillsBuild platform to apply algorithms on diverse datasets for data preprocessing and model evaluation.
- Applied learned techniques to a capstone project, processing over 10,000 product reviews for sentiment classification.

### SMARTBRIDGE 🔗 | DATA ANALYTICS INTERN

May 2025 – Jul 2025 | Remote

- Mastered data visualization and dashboard creation with **Tableau** during a 2-month internship focused on Data Analytics.
- Analyzed complex datasets to identify key trends and generate actionable business insights.
- Designed and presented 5+ interactive Tableau dashboards to visualize key performance indicators, improving data accessibility.

## COURSEWORK

### B.TECH

Deep Learning (CNNs) • Machine Learning (Predictive Models) • Big Data & Cloud Computing • Design and Analysis of Algorithms

## ACHIEVEMENTS

Top 15%, LeetCode Weekly Contest (2024)

Finalist, College-level Hackathon (2023)

## CERTIFICATIONS

Deep Learning Course: Deep Dive Into Deep learning 🔗

Introduction To Deep Learning 🔗

Introduction To Natural Language Processing 🔗

## LINKS

🐙 GitHub

🌐 LinkedIn

🔗 LeetCode

## PROJECTS

### SENTIMENT ANALYSIS OF PRODUCT REVIEWS 🔗 | PYTHON, NLTK, SCIKIT-LEARN, MATPLOTLIB

- Engineered a sentiment analysis pipeline to classify customer reviews, employing **NLTK** for text preprocessing and TF-IDF for feature extraction.
- Trained and evaluated a Logistic Regression model, achieving **88% accuracy** on a dataset of 10,000+ reviews.
- Evaluated model performance using metrics such as Precision, Recall, and F1-score to ensure balanced classification.

### STOCK PRICE MOVEMENT PREDICTION 🔗 | PYTHON, TENSORFLOW, PANDAS, SCIKIT-LEARN

- Developed a time-series forecasting model using an **LSTM neural network** with **TensorFlow** to predict the next day's closing price of NIFTY 50 stocks.
- Performed feature engineering on historical price data, creating indicators like SMA and RSI.
- Utilized 5 years of historical stock data from the NIFTY 50 index for model training and backtesting.

### OPTIONS PRICING MODEL (BLACK-SCHOLES) 🔗 | PYTHON, NUMPY, SCIPY, PANDAS

- Implemented the Black-Scholes-Merton model to calculate the theoretical price of European call and put options.
- Developed a tool to compute and visualize "the Greeks" (Delta, Gamma, Vega, Theta) to analyze option risk.
- Created a user-friendly interface for dynamic input of parameters (stock price, strike, volatility) for real-time analysis.