

Koushitha Gottipati

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EDUCATION

Amrita Vishwa Vidyapeetham - Chennai, Tamil Nadu

Bachelors of Technology - Computer Science and Engineering (Artificial Intelligence)

Sri Chaitanya Junior College - Vijayawada, Andhra Pradesh

Maths, Physics, Chemistry

Oct 2021 - May 2025

CGPA: 8.1/10.0

Jun 2019 - May 2021

Percentage: 94.2/100

SKILLS

- **Programming Languages:** C++, Java, Python, SQL.
- **Python Libraries:** Numpy, Pandas, Matplotlib.
- **Database:** MySQL.
- **Web Development:** HTML, CSS.

PROJECTS

Generalized Deep Learning Models to Classify Allen Telescope Data

Nov 2022 - Apr 2023

- Utilized the SETI IBM Cloud initiative dataset launched in September 2016.
- The radio waves in the dataset were transformed into 2D spectrogram format and divided into 7 types.
- Tested 4 CNN models on the dataset to classify the signals based on precision, recall, and F1-score, the VGG16 model had best accuracy of 92%.

Enhancing Breast Cancer Diagnosis with Deep Learning-Based Image Classification

Aug 2023 - Nov 2023

- Analyzed 2 datasets comprising histopathology images and curated the Breast Imaging Subset DDSM Dataset(Mammography).
- Integrated within the dataset are 3 distinct types of images, namely cropped images, ROI masks, and full mammograms.
- Attained remarkable accuracy levels with classical deep learning models, including Deep U-Net, Attention U-Net, CNN, Custom VGG, DenseNet, and Ensemble, the latter achieving the highest accuracy at 97%.

Drug Induced CardioToxicity Analysis Using Graph Neural Networks

Aug 2023 - Nov 2023

- Orchestrated the implementation of an ensemble of machine learning models (XGBoost, SVR, Random Forest) resulting in a 20% increase in accuracy and a 15% reduction in false positives, revolutionizing decision-making processes.
- Accuracy analyzed in distributions and Histogram approaches with the epochs with an accuracy of 90.8. including MLP, LSTM, and GNN to detect drug-induced cardiotoxicity with 92% accuracy.

Sentiment-Driven Predictive Models for Nifty 50 Stock Market Fluctuations

Aug 2023 - Nov 2023

- Utilized a comprehensive NIFTY-50 dataset sourced from the official NSE India website, exploring various stock attributes for thorough market analysis.
- Conducted a comprehensive analysis of NIFTY-50 stock data using ARIMA, SARIMAX, LSTM, and XGBoost models, showcasing diverse predictive modeling skills.
- Achieved high accuracy in stock price prediction, with LSTM achieving a mean squared error (MSE) of 24.4 and XG-Boost providing precise predictions, reflecting meticulous data analysis.
- Implemented time-series decomposition techniques and visualizations to uncover hidden patterns and trends in the dataset, enhancing the understanding of stock market dynamics.

ACHIEVEMENTS

- Published Paper in IEEE conference held at IIT-Delhi on Generalized Deep-Learning Models.
- Obtained Accolades and Prizes from Salesforce.

ADDITIONAL

Course Certifications:

- Azure AI Fundamentals offered by Microsoft
- SQL – Badge certification offered by HackerRank
- People and soft skills assessment offered by IBM

Feb 2023 - Mar 2023

Jul 2023 - Aug 2023

Oct 2023 - Nov 2023

Volunteer Work:

- Volunteered in the Neuronix Club in our campus for poster making and Flyer invitation.
- Volunteered for Seva activities conducted by the campus and out campus.