Karthik Gandu

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Education

- **University of North Texas** — Denton, Texas
  Master of Science - Computer Science; GPA: 3.88 — *August 2021 - Present*
  Courses: *Operating System Design, Software Engineering, Machine Learning, Database, Machine Learning, Deep Learning*
- **Amrita Vishwa Vidyapeetham** — Bengaluru, India
  Bachelor of Technology - Electronics and Communication Engineering; GPA: 7.27 — *July 2017 - June 2021*
  Courses: *Data Structures, Pattren Recongintion, Soft computing, Signal Processing, Computer Networks*

Skills Summary

- **Languages**: Python, C++, JavaScript, SQL, Bash
- **Frameworks**: Scikit, NLTK, SpaCy, PyTorch, TensorFlow, Keras, Django, Flask
- **Tools**: Kubernetes, Docker, GIT, MySQL, SQLite, REST API
- **Platforms**: Linux, MACOSX, Windows, AWS, Azure
- **DevOps**: CI/CD, DVC, MLFlow, Kubernetes
- **Finance Skills**: Risk Management, Options Trading, Quantitative Analytics, Quant Data pipelines, Technical Analysis, Price Action, Fundamental Analysis, Own indicators creation using Python, Trading Bots.

Projects

- **Copy Trading Bot for Zerodha**: Tools
  - Developed a Python-based copy trading bot, integrated with the Zerodha platform, enabling users to replicate successful traders' strategies and manage subscriptions through a user-friendly interface.
  - Employed advanced data analysis techniques to identify high-performing traders, optimizing potential returns for users and enhancing decision-making.
  - Ensured accuracy and reliability in live trading scenarios through rigorous testing, debugging.

- **Stock Market Prediction**:
  - Built a Python-based machine learning model for stock market prediction, utilizing historical data and various algorithms (Linear Regression, LSTM, ARIMA) to optimize accuracy and performance.
  - Enhanced model efficiency by incorporating data preprocessing techniques and feature extraction, enabling effective handling of large datasets.
  - Ensured reliable predictions and minimized decision-making risks through thorough testing and validation of model performance.

- **Stock Market Dividend Calculator**:
  - Developed a comprehensive dividend calculator for stock market investments using Python, enabling users to estimate returns based on dividend payouts.
  - Integrated web scraping techniques to gather real-time dividend information, ensuring accurate and up-to-date calculations.
  - Implemented a user-friendly interface for inputting stock information and displaying results, facilitating informed investment decisions.

- **Interactive Stock Analysis Dashboard**:
  - Developed a versatile stock analysis dashboard using Python, Dash, and Plotly, featuring interactive visualizations, technical indicators, and fundamental analysis tools to aid in informed decision-making.
  - Integrated real-time data retrieval from financial APIs, ensuring access to up-to-date stock market information for accurate analysis.
  - Designed a responsive and customizable user interface, allowing users to personalize the dashboard to align with their investment preferences and goals.

Honors and Awards

- Participated in SLAC conducted by Amrita Vishwa Vidyapeetham. - April, 2018
- Participated in RASE conducted by Amrita Vishwa Vidyapeetham. - February, 2018