GARIKAPATI HEMA SANDEEP

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SUMMARY

Tech-Savvy Enthusiast with a keen interest in engineering and a strong foundation in academic principles. Detail-oriented and driven, I possess a solid skill set in communication, teamwork, and problem-solving, developed through rigorous coursework and collaborative projects. A quick learner with an adaptable mindset, I am eager to apply my knowledge in real-world scenarios and take on new challenges to achieve meaningful results.

EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY   Vellore, Tamil Nadu
MTech Integrated Computer Science   August 2021-Present
                    Cumulative GPA: 9.22/10.0

NARAYANA JUNIOR COLLEGE   Vijayawada, Andhra Pradesh
XII(BIEAP)   July 2019 - March 2021
                    Percentage: 97.6%
NARAYANA SCHOOL   Vijayawada, Andhra Pradesh
X(APSSC)   July 2018 - March 2019
                    CGPA: 9.8/10.0

ACADEMIC PROJECTS

Stockanalyzee 🔗
Tech Stack: Flask, Numpy, Pandas, Tensorflow, Plotly, Sklearn, Streamlit   AUGUST 2024

- Developed a dynamic stock analysis web application using Streamlit and Plotly, enabling users to visualize stock performance through interactive charts, including time series plots and moving averages. The application fetches real-time data using yfinance and offers year-wise box plots for in-depth analysis
- Implemented a machine learning model for stock price prediction, allowing users to input custom date ranges and visualize both actual and predicted prices. The model, built with TensorFlow and Keras, uses a trained neural network to provide future stock price predictions.
- **Enhanced user experience with a customized UI theme** and features such as stock information display, business summary, and an intuitive interface for selecting historical data, ensuring a professional and user-friendly experience.

Blogit 🔗
Tech Stack: Flask Forms, Postgress SQL, Smtplib, Render   OCTOBER 2023

- Developed "Blogit," a Flask-based blog website with secure login and registration features using Flask-WTF forms and authentication.
- Implemented admin-on.ly access control for managing and deleting blog posts, ensuring secure content management
- Utilized SHA-256 hashing with password salting for secure password storage, enhancing user data protection.
- Implemented contact us form using SMTP library when user submits the request to contact admin can receive the request through mail.

Work Experience

Internship 🔗   Hyderabad, Telangana
DRDO- Research Centre Imarat   June 2024 – July 2024

- Developed a novel approach to enhance Ring Laser Gyroscope (RLG) performance by integrating Statistical Signal Processing (SSP) and Reinforcement Learning (RL).
- Introduced Dynamic Dither Angle (DDA) and Dither Symmetry Angle (DSA) calculations to mitigate static and dynamic lock-in effects, improving measurement accuracy.
- Utilized Deep Deterministic Policy Gradient (DDPG) to optimize Pseudo Random Noise (PRN) values, leading to significant enhancements in RLG accuracy and reliability.

ADDITIONAL

Technical Skills: SQL, JavaScript, HTML/CSS, Python- Flask, Django, C++, Java, AWS S3, AWS EC2
Languages: English (fluent), Telugu (Native), Hindi(fluent)
Certifications & Training: Microsoft Azure AI Fundamentals 🔗 ,Hacker Rank Certification in Python 🔗
Awards: Merit award for Academics(2021-2022) 🔗 , Merit award for Academics(2022-2023) 🔗