Hari Sharan Garlapati

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CAREER OBJECTIVE

Exceptional and analytical Computer Science Engineering student with expertise in multiple programming languages and strong analytical skills across diverse domains including machine learning, full-stack development, and data structures & algorithms. Aspiring to secure a software developer position to utilize my problem-solving abilities and technical proficiency in creating efficient, user-centric software solutions.

EDUCATION

BACHELOR of TECHNOLOGY - Computer Science and Engineering **2022 – 2026**

B V RAJU INSTITUTE OF TECHNOLOGY **CGPA : 9.23**

INTERMEDIATE – MPC **2020 – 2022**

NARAYANA JUNIOR COLLEGE **Passed With 98.1%**

MATRICULATION **2020**

NARAYANA E-TECHNO SCHOOL **CGPA : 10**

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, JavaScript, Python.
- **Web Technologies:** HTML, CSS, JavaScript, Node.js, React.
- **Databases:** MySQL, MongoDB.
- **Machine Learning and AI:** Pandas and GeoPandas, Scikit-Learn, LandTrendr.
- **Software Tools:** MATLAB, **Remote Sensing Tools:** Google Earth Engine, QGIS, ArcGIS, LandTrendr.

EXPERIENCE

National Institute of Advanced Studies (NIAS) **August - September 2024**

- Completed a **6-week** internship at the **National Institute of Advanced Studies (IISc Bangalore)**, specializing in Remote Sensing techniques for identifying **Rubber plantations** in Assam using satellite imagery in the **Google Earth Engine platform.** Analyzed large-scale satellite data to accurately detect plantation areas and applied advanced geospatial analysis methods for comprehensive agricultural monitoring. Implemented the **LandTrendr** model to estimate the **Age of Rubber plantations**.

Google AI/ML Virtual Internship **January - March 2024**

- Completed a **3-month** Virtual Internship under the guidance of **GOOGLE** in the area of **AI and Machine Learning**. Acquired knowledge on image processing and **Image Identification and Analysis** using **TensorFlow**.

IBM SkillsBuild **June - July 2023**

- Completed a **1-month** Virtual internship with **IBM** in **Artificial Intelligence**, gaining expertise in machine learning concepts using Python. Developed a "**Mental Health Tracker**" project, implementing **Random Forest Regressor and other ML algorithms** to demonstrate practical application of acquired skills.

PUBLICATIONS

- G. Hari Sharan, “Advancing healthcare accessibility: Development of an AI-driven multimodal chatbot,” in Proceedings of the **IEEE 2024** 4th International Conference for Intelligent Technologies (**CONIT**), Hubballi, Karnataka, India, 2024, p. 10.

PROJECTS

Mental Health Tracker

- Developed a project titled Mental Health Tracker using Python's Machine Learning techniques like Random Forest Regression and Linear Regression to predict Mental Health of a person using existing and predicted values.

Heart Failure Prediction

- Developed an ensemble of models—Decision Trees, SVM (SVC), Logistic Regression, and Random Forest—to predict heart failure risk from clinical data. Achieved high accuracy by leveraging diverse machine learning algorithms.

Crop Price Prediction

- Developed and implemented a Linear Regression model to predict crop prices using past market data, supporting farmers and stakeholders in making data-driven decisions.

Sentiment Analysis in Twitter comments using ML

- Implemented a Decision Tree Classifier to process Twitter data, classifying sentiments as positive, negative, or neutral. Focused on analyzing public opinion and trends linked to real-world events.

Titanic Survival Prediction

- Predicted passenger survival on the Titanic dataset using Logistic Regression, enhancing model performance through optimized feature engineering techniques.

Breast Cancer Survival Prediction

- Built a machine learning pipeline using the METABRIC dataset to predict breast cancer patient survival, applying preprocessing, feature selection, and models like Decision Trees, Random Forests, and Logistic Regression. Focused on accurate classification and healthcare-driven insights.

AI Driven Multimodal Health Care Chat Bot - ZAYLEE

- Developed a real-time facial recognition attendance system using Python, OpenCV, and Face Recognition library with comprehensive user registration and live detection capabilities. Implemented automated attendance logging to Excel files and efficient face encoding storage for scalable user management. Created modular utilities for face encoding processing, attendance tracking, and real-time status updates to ensure robust system performance. Built with scalable architecture and modular design principles to support future enhancements and easy maintenance.

CERTIFICATIONS

- Completed "**Programming Essentials in C(CLA)**".
- Completed "**Programming Essentials in Python (PCAP)**".
- Secured **Silver** with **75%** in **JAVA Programming in NPTEL** platform.
- **MATLAB** Onramp.
- **Image Processing Onramp** using MATLAB.
- **Google AI ML** Virtual Internship certificate.
- **Google Android Developer** Internship certificate.

EXTRACURRICULAR ACTIVITIES

- Took part in **MUN (Model United Nation)** as a Spanish debater and earned a certificate of excellence.
- Volunteered in the **Street Cause** in order to support and contribute towards society.
- Participated in the event named **PROMETHEAN** in the quest **ATHER VISTA** based on languages HTML and CSS.

ACHIEVEMENTS

- Won **3 Gold** and **2 Bronze** Medals in **National Science Olympiad (NSO)** exams during High School.
- Won **3 Gold Medals** in **NSTSE** exams during High School.
- Won **Silver Medal** in **North Zone Inter School Martial Arts Open Championship** in the 7th Standard.
- Won Trophy for zonal-level final round in **Master Orator Debate** competition in the 8th Standard.