

VARSHA SRI DUGGIRALA

Engineering Undergraduate

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📍 Bhimavaram - India

in [Linkedin](#)

🐙 [Github](#)

EXPERIENCE

Machine Learning Intern

[Henotic Technologies](#)

📅 July 2022 - Sep 2022

📍 Remote

- Utilized **Machine learning algorithms** to analyze astronomical data for **identifying** and **tracking** near-Earth objects.
- **Trained models** to **predict** trajectories and potential impact events of asteroids and comets.
- **Integrated** machine learning techniques into **asteroid detection systems** to improve **accuracy** and **efficiency**.
- **Leveraged** data-driven approaches to **optimize** resource allocation and **prioritize mitigation** efforts.
- **Collaborated** with my team to **refine** and **validate machine learning models** for planetary defense applications.

CERTIFICATIONS

- Problem Solving through **Programming in C** Organized by NPTEL.
- The Joy of Computing using **Python** Organized by NPTEL.
- Certificate of Participation in Hackathon on **Data Science Using Python** Organized by BRAINOVISION.
- **HTML, CSS, and JavaScript** for Web Developers by COURSE-ERA.
- **Data Analytics** with Python Organized by NPTEL.
- **Full Stack Web Development** using **MERN stack** at **Web Stack Academy**.

TECHNICAL SKILLS

- **Programming Languages**
 - C
 - Python
- **Frameworks & Libraries**
 - HTML5, CSS3
 - Java Script
 - React Js
 - SQL , Mongo DB
 - Bootstrap, Material UI
- **Version Control**
 - Git
 - Github
 - Visual Studio

COURSEWORK SUBJECTS

- Machine Learning
- Object Oriented Programming
- Data Structures and Algorithms
- Database Management System

EDUCATION

B.Tech. (IT) - 8.41 CGPA

Sagi Rama Krishnam Raju Engineering College

📅 2020 - 2024

Higher Secondary - 9.96 CGPA

Sri Chaitanya Junior College, Rajahmundry

📅 2018 - 2020

Secondary - 10 CGPA

Sasi English Medium High School, Velivennu

📅 2018

PROJECTS

HomelyHub app Using MERN stack

- Engineered user **authentication** and **profile management** systems for HomelyHub, enhancing security and **user engagement**.
- **Implemented** advanced search and **filtering features**, enabling users to find **accommodations** based on **location**, **dates**, **pricing**, and **amenities**.
- **Developed** dynamic property listing interfaces with **detailed information** and image galleries for informed **decision-making**.
- **Orchestrated** the creation of a seamless **booking system**, allowing users to confirm reservations with **real-time availability updates**.

Solar Radiation Level Prediction Using Machine Learning

- **Developed** machine learning models to predict solar radiation levels, **enhancing the efficiency** of solar energy systems.
- Conducted rigorous **data analysis** and **feature engineering** to improve the accuracy of solar radiation forecasts.
- **Evaluated model performance** using metrics like **Mean Absolute Error (MAE)** and **Root Mean Squared Error (RMSE)**.
- **Contributed** to the transition towards sustainable energy by **revolutionizing solar radiation prediction methods**.

Managing EFS and establishing connectivity between EC2 instances and EFS

- **Implemented** and managed Elastic File System (EFS) to provide reliable and stable file storage for cloud applications.
- **Established** seamless connectivity between **Amazon EC2 instances** and **EFS** to ensure uninterrupted access to **file storage resources** in the cloud.