Sreekar Choudary Yadlapalli

y.sreekar273@gmail.com +91 7400484248 GitHub LinkedIn Website

Education

2021/10 – present
Birla Institute of Technology and Science, Pilani K K Birla Goa Campus
B.E. (Hons) Computer Science *CGPA : 8.25*
Courses: Machine Learning, Data Structures and Algorithm, Database System, Object Oriented Programming, Brain-Inspired Deep Learning, Operating Systems, Artificial Intelligence

2019 – 2021
Rao Junior College of Science , Thane
Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE) *Percentage : 99%*

Professional Experience

2023/06 – 2023/08
Mumbai, India
Bajaj Electricals Ltd
IoT Team Intern
- Designed and implemented a web application, using Angular for the front end, NodeJS for the backend, and MongoDB for database management, showcasing real-time user-specific energy data in interactive chart format
- Enhanced user access by deploying the web application on AWS cloud service , guaranteeing high availability
- Established IoT device -cloud connectivity , enabling regular data transmission to the cloud at specific intervals

2023/05 – 2023/07
Hyderabad, India
MASTH, Ultrahive Pvt Ltd
ML Intern
- Developed a Machine Learning model for emotion recognition from speech which identifies emotion with an accuracy of 76%
- Created a Flask API to facilitate the execution of the emotion recognition model allowing integration with various applications
- Integrated the model into a Flutter mock app, demonstrating practical usage in real-world scenarios.

Projects

2022/09 – present
Project Kratos
Multi-disciplinary Mars rover team
- Contributed to the Science subsystem, specializing in deep learning code for rock classification
- Developed Arduino code to optimize Atmospheric and Gas concentration sensors
- Conducted chemical tests to identify proteins present in soil and optimized them for rover conditions

2024/01 – present
Enhancing resolution of precipitation data
- Utilized interpolation techniques to align satellite data resolution with ground data, followed by empirical quantile mapping for bias correction.
- Leveraged Pix2Pix and SRGAN models to establish the correlation between satellite and ground data, facilitating accurate prediction of future data trends.

2024/03 – present
Stock Market Prediction using LSTM
- Developed and implemented an LSTM-based time series algorithm for Stock Market Prediction utilizing features such as Signal line, MacD line, and EMA.
- Designed a trading algorithm considering transaction costs and taxation to simulate real-world stock market scenarios.
- Explored diverse ensembling techniques to maximize profit in trading strategies.

Skills

Programming Languages: Python, C++, C, JavaScript, TypeScript, HTML, CSS

Frameworks: Angular, TensorFlow, PyTorch, Keras, Flask, React, NextJS, Flutter

Tools: Git, GitHub, AWS

Languages: English, Hindi, Telugu, Kannada

Awards

2023/01
Excellence Award (Overall)
International Rover Challenge (IRC) | Space Robotics Society (SPROS)
- Won Best Overall Rover award.
- Finished 4th out of 18 teams which qualified for finals

Competitions

2023/06
University Rover Challenge (URC), Utah, USA
- Among the 37 teams worldwide which qualified to the finals of URC

Extra Curricular Activities

2023/07 – 2025/05
Coordinator
Peer Mentorship Program (PMP)
- Designed a feedback forum for first-year students, easing the process of feedback and raising concerns about mentors
- The website efficiently processes and records mentee feedback, ensuring timely resolution by notifying relevant coordinators
- Effectively conducted interviews and selected mentors to provide guidance and support for newly enrolled first-year students
- Conducted informative sessions on registration procedures, degree planning strategies, and practice school (PS) insights

2022/10 – 2023/07
Mentor
Peer Mentorship Program (PMP)
- Mentored university freshmen throughout the first year via counselling and assistance for academic and non-academic fields

BITS Goa Kabaddi
- Represented the University Kabaddi team in inter-college competition