

TARUN REDDY NERELLA

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EDUCATION

Master of Science Computer Science University of Colorado Denver Denver Course Works : Big Data Systems, Artificial Intelligence, Deep Learning, Algorithms	<i>AUG 2022 - PRESENT</i>
Bachelor of Technology Computer Science and Engineering JB Institute of Engineering and Technology Hyderabad Cumulative GPA: 8.31/10	<i>AUG 2018 - JUNE 2022</i>

EXPERIENCE

Student Ambassador University of Colorado Denver Representing the University and assisting with student outreach, events, and activities.	<i>JAN 2023 - PRESENT</i>
Intern Rinex, Entrepreneurship Cell IIT Kharagpur Worked on a variety of machine learning projects, exploring and evaluating the performance of different algorithms across diverse fields and applications.	<i>JULY 2021 - SEPT 2021</i>
Intern IIT Hyderabad Utilized HTML, CSS, JAVASCRIPT, JSON, REACT and PHP to create responsive and interactive websites.	<i>AUG 2020 - SEP 2020</i>
Intern Pantech Solutions Intrusion Detection Model using machine learning algorithms in a big data environment to improve network security.	<i>JUNE 2020 - JULY 2020</i>

SKILLS

Languages: Python, Node, JavaScript, C, CPP
Libraries and Frameworks: Tensorflow, React JS, Angular JS, Django, Flask, Express.js
Tools: GCP, Docker, Microsoft Office, Vagrant, Git, Jira, VSCode
Databases: MySQL, MongoDB, Redis
Additional Skills: RESTful APIs, CI/CD, Agile Development, Data Visualization, Kafka, NLP

PROJECTS

Real-Time Road Sign Detection, Recognition, and Driver Guidance System Developed a system using YOLOv7 and a two-layer neural network for real-time road sign detection and recognition with high accuracy.	<i>APRIL 2023</i>
News Classifier using Kafka Real-time news classification system to classify articles into different categories using NLP and ML algorithms. Utilized Kafka to consume, classify, and store news articles in real-time.	<i>FEB 2023</i>
AI-Powered Environmental Adaptive Assistant for the Visually Impaired AI-driven solution utilizing YOLOv5, empowers visually impaired individuals with enhanced mobility and safety by providing real-time object detection, recognition, and audio guidance for obstacle-free navigation.	<i>DEC 2022</i>
Cloud-based e-commerce application using flutter and firebase Created a full-featured Flutter application with Firebase backend services, incorporating authentication, authorization, and in-app purchases.	<i>OCT 2021 - JUNE 2022</i>
Software for polyclinic in python Developed a web application to manage appointments, prescriptions, and billing for a polyclinic.	<i>NOV 2021</i>

PUBLICATIONS

Research Paper International Journal Dr. Vijay Anand, Nerella Tarun Reddy, G Jagapathi Reddy, A Shashikanth, " <u>A Hybrid Method to Enhance the Prediction of Hazardous Asteroids using XGBOOST Classifier with XGBCLASSIFIER based Feature Selection Method</u> " Volume 8 Issue 9, International Research Journal of Engineering and Technology (IRJET).	<i>SEPT 2021</i>
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ACTIVITIES AND ACHIEVEMENTS

Summer Analytics 2021 Consulting and Analytics Club, IIT Guwahati Completed 250+ hours of data science boot camp with numerous projects.	<i>JUNE 2021</i>
Organiser AliensFest 3.0	<i>OCT 2018</i>
Volunteer Greenpeace India	<i>AUG 2018</i>