Vinay kumar Reddy

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OBJECTIVE

A motivated and detail-oriented B.Tech student specializing in Computer Science and Engineering with a focus on Artificial Intelligence and Machine Learning. Experienced in developing machine learning models, web-based applications, and real-time object detection systems. Proven track record in leading projects, including heart disease prediction, multiple disease detection, and an interactive chess game using HTML, CSS, and JavaScript. Strong problem-solving abilities, with a passion for exploring innovative solutions. Demonstrated leadership as a volunteer and event coordinator, with excellent teamwork, communication, and project management skills.

EDUCATION

Bachelor of Technology in Computer Science and Engineering (CSE) with a specialization in Artificial Intelligence and Machine Learning (AI and ML)

Mallareddy University • Hyderabad,Telangana • 2025 • 8.0

Intermediate

Narayana junior college • Raviryala,Telangana • 2021 • 87%

School

Naagarjuna IIT Olympiad • Hyderabad,Telangana • 2019 • 9.3

SKILLS

- **MERN Stack**:
  MongoDB, Express.js, React.js, Node.js, JavaScript, HTML, CSS
- **Programming & DSA**:
  Python, Java, C, Go (Beginner)
- **Machine Learning**:
  Machine Learning (ML)
- **Design**:
  UI & UX Design

PROJECTS

Object Detection Using Reinforcement Learning

Mallareddy University • github.com/vinaykumar11111/object-detection • January 2024 - May 2024

- Implemented reinforcement learning algorithms (Deep Q-Learning and Policy Gradient) to improve object detection accuracy and processing speed by 20%. Enabled real-time adjustments to the detection strategy based on continuous feedback, enhancing the system's adaptability and efficiency in dynamic environments.

Multiple Disease Prediction Using Machine Learning

Mallareddy University • project1py-bd55wagfwkfaazevgn2icr.streamlit.app/ • June 2024 - September 2023

- Developed a machine learning model that predicts multiple diseases based on patient health data and symptoms, achieving a 95% accuracy rate. Utilized algorithms like Decision Trees, Random Forest, and SVM, with feature engineering and model evaluation techniques to ensure reliable, multi-disease classification.

Heart Disease Prediction Using Machine Learning

Mallareddy University • github.com/vinaykumar11111/heart-disease-pred • February 2023 - June 2023

- Developed a machine learning model using Logistic Regression, Random Forest, and SVM to predict the likelihood of heart disease based on clinical data. Achieved an accuracy improvement of 15% after hyperparameter tuning and feature selection, enabling more reliable early diagnosis and personalized healthcare recommendations.

Handwritten Digit Recognition Using Artificial Intelligence and Machine Learning

Mallareddy University • github.com/vinaykumar11111/digit-rec • July 2022 - November 2022

- Built a Convolutional Neural Network (CNN) to recognize and classify handwritten digits from the MNIST dataset, achieving 98% accuracy. Optimized preprocessing and real-time prediction capabilities, providing a reliable solution for digit classification in applications like postal sorting and form processing.

Interactive Chess Game

Mallareddy University • vinaykumar11111.github.io/chessproject.github.io/ • January 2022 - June 2022

- Engineered a fully functional chess game using HTML, CSS, and JavaScript, implementing drag-and-drop mechanics and move validation. Enhanced user experience with a responsive design for seamless gameplay across desktop and mobile platforms, ensuring an engaging and interactive chess experience.

ACTIVITIES AND INTERESTS

Volunteer and Event Coordinator

Hyderabad,Telangana • Mallareddy University • February 2023 - March 2023

- **Volunteer and Event Coordinator**
  Coordinated logistics, led a volunteer team, and assisted with event setup for Sparks Intelligentia 2K23, ensuring smooth execution.
- **Hobbies**:
  Passionate about animation and digital design, with a focus on creating visually compelling animations.
  Active participant in hackathons and coding competitions.
  Enthusiastic chess player.
- Sports