Anish Giri

Puducherry +91 6294957979 Email LinkedIn GitHub

As a curious and enthusiastic individual, I thrive on delving into the depths of knowledge and discovering the world's treasures. With a strong interest in technology, I find solace in the Linux environment and enjoy deciphering its complexities. As an AI, ML, and Data Science enthusiast, I am eager to harness these fields' potential and leverage their transformative impact. My unwavering passion for coding drives me to continuously expand my programming language repertoire. Fueled by unquenchable curiosity, I aspire to contribute significantly to the realms of AI, ML, and Data Science.

Skills

- MySQL
- Git
- PHP
- Web Development
- JavaScript
- C++
- Data Analysis
- SQL
- Bash
- Linux
- Python

Education

- **BSc in Computer Science** Midnapore College, West Bengal August 2019 – July 2022
- **MSc in Computer Science** Pondicherry University, Puducherry December 2022 – Present

Experience

- **Subject Matter Expert**: Chegg Inc. July 2021 – Present

Hobbies

Reading, Anime, Chess, Video Games, Esports

Projects

Machine Learning MLOps Pipeline Project, [November 2023 – Present]

Implemented a robust Machine Learning Operations (MLOps) pipeline to streamline the development and deployment of machine learning models. Key accomplishments include:

- **Version Control:** Utilized Git for efficient code management, ensuring collaboration and maintaining a structured project history.
- **Docker Containerization:** Implemented Docker to encapsulate the machine learning model, its dependencies, and the runtime environment, ensuring consistent performance across diverse environments.
- **MLOps Automation:** Established an end-to-end pipeline automating version control, Docker containerization, cloud deployment, and potential monitoring and logging.
- **Automated Testing:** Integrated a comprehensive test suite to assess code quality and model performance, ensuring reliability throughout the development process.
- **Deployment (In Progress):** Currently working on deploying the machine learning model, showcasing dedication to mastering the full MLOps lifecycle.

VisionPlay: Bridging Real and Virtual Worlds in Gaming with Computer Vision Control, [January 2022 - Present]

VisionPlay is a groundbreaking project that harnesses the power of computer vision to seamlessly integrate physical gestures into virtual gaming experiences. Initially focusing on replicating moves in Tekken 3, the project's ambition extends to embracing contemporary games, ushering in a new era of immersive and interactive gameplay.

Real-time Vehicle Speed Estimation Using YOLO and Darknet Deep Learning, [January 2022 – July 2023]

Leveraged YOLO algorithm and Darknet framework to develop an AI-powered vehicle speed estimation system. Accurately detected and tracked vehicles, enabling real-time speed estimates for enhanced traffic management.

Conversational AI Discord Bot with Akinator Integration, [February 2023 – March 2023]

Crafted an advanced Discord bot, integrating the Akinator game and an intelligent chatbot companion. Engaged users in dynamic conversations and mind-bending quizzes, enhancing Discord server experiences.

Full Stack Web Development: Student Panel, [November 2023]

Developed a comprehensive Student Panel as part of a Full Stack Web Development project. Implemented a registration portal for students to easily register, with a corresponding login portal for secure access. The admin panel provides a centralized view of student information and grades upon login, enhancing user experience and administrative efficiency.

Educational Projects

MNIST Neural Network Digit Recognizer, [August 2023]

In this 'MNIST Neural Network Digit Recognizer' project, I explore a variety of neural network architectures and optimization algorithms to accurately identify handwritten digits from 0 to 9. We begin with a basic two-layer neural network, gradually advancing to a more complex Multi-Layer Perceptron (MLP), a Convolutional Neural Network (CNN), a Feedforward Neural Network (FNN), and even delve into Recurrent Convolutional Neural Networks (RCNNs). Additionally, we briefly touch upon Support Vector Machines (SVMs), Random Forest and K-Nearest Neighbors (KNN) as an alternative approach. Throughout, I fine-tune models using the MNIST dataset and cover both forward and backward propagation techniques. The project offers a comprehensive journey into digit recognition and machine learning.

Iris Flower Classification, [July 2023 – August 2023]

In this classification project, I employed machine learning techniques to accurately categorize iris flowers based on their features. According to ML dev community this is like 'abc' of ML. The project showcases data preprocessing, model training, and evaluation, contributing to the field of classification.

Wine Quality Prediction, [July 2023 – August 2023]

Utilizing machine learning, I developed a wine quality prediction system that assesses the quality of wines based on various attributes. This project demonstrates regression techniques and predictive modeling.

House Price Prediction, [July 2023 – August 2023]

In this real estate project, I built a predictive model to estimate house prices based on property characteristics. The project focuses on regression analysis and provides valuable insights for homebuyers and sellers.

Sentiment Analysis, [October 2023]

Conducted sentiment analysis using natural language processing techniques to analyze and categorize sentiments expressed in text data, gaining insights into public opinions.

Galton Board, [March 2023 – March 2023]

Galton Board Simulation: Exploring Randomness and Probability Through a Digital Galton Board Model.

Extra-Curricular Activities

- **Aquarium Enthusiast**

  Passionate about creating and maintaining vibrant aquatic ecosystems. Currently engaged in caring for Goldfish, Betta Fish, Tetra Fish, and various aquatic plants. Ensure optimal health through water quality checks, personalized care, and continuous learning about the unique needs of each species. This hobby fosters creativity, responsibility, and a deeper appreciation for the delicate balance of underwater environments.
