

Aryan Dhiren Jagani

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Education

University of Maryland Baltimore County

2024 - Present

MS in Information Systems

Shah & Anchor Kutchhi Engineering College

2020-2024

BE in Computer Engineering

- GPA: 8.5/10
- **Coursework:** Computer Architecture, Artificial Intelligence, Comparison of Learning Algorithms, Computational Theory

Experience

Machine Learning Intern, Bharat Intern

Aug 2023 – Sept 2023

- House Price Prediction: Machine Learning model to predict house price using linear regression
- Wine Quality Prediction: Machine Learning model to predict the quality of wine using linear regression
- Iris Flowers Classification: Predict the different species of flowers on the length of their petals and sepals

Artificial Intelligence Intern, Edunet Foundation,

June 2023-July 2023

- Developed a fully functional Mental Health Fitness Tracker ML model using Python and scikit-learn
- Implemented 12 types of regression algorithms to achieve precise results in analyzing and predicting mental fitness levels from over 150 countries
- Cleaned, preprocessed, and engineered features to enhance the model's predictive capabilities
- Optimized the model's performance by fine-tuning model parameters and implementing ensemble methods, resulting in an impressive accuracy percentage of 98.50

Simulation Developer, Shah AND Anchor Kutchhi Engineering College

Nov 2021 - March 2022

- Collaborated and headed the team coordination on the "BEE Virtual Lab" a project to help aspiring engineers comprehend and flourish. Constructed a simulation to test the Superposition Theorem
- Conducted thorough testing and debugging to ensure the functionality, accuracy, and reliability of the simulation

Projects

Hr Analytics Dashboard Using Power-Bi | Microsoft PowerBi

github.com/ARYAN/Hr

- Dashboard was designed to visualise attrition rate of Employees in an organization and Visualization was done using Stacked Bar Chart, Donut chart, pie chart, KPI's, etc

Real-time Exercise Tracker | Tkinter, OpenCV, Mediapipe

github.com/Aryan/fitness

- Developed an AI model that tracks the posture of the human body while doing exercises

Mental Health Fitness Tracker | Numpy, Matplotlib, Scikit, Regression

github.com/Aryan/Mentaltrack

- Analyzes and predicts mental fitness levels of individuals with different mental disorders from countries

- It uses regression techniques to provide insights and predictions based on available data

Superposition Theorem | HTML, CSS, Javascript

github.com/Aryan/Super

- Developed and deployed simulation for Superposition Theorem on the "VLabs", a Shah and Anchor Kutchhi Engineering College effort for the advancement of aspiring engineers.

Publications

CogniPoseAI: A Futuristic AI-Enhanced Personal Trainer, International Conference on Self Sustainable Artificial Intelligence Systems

October 2023

Aryan Jagani, Deepesh Katudia, Miheer Darji, Dr. Vaishali Hirlekar

10.1109/ICSSAS57918.2023.10331759

Skills

Languages: C, C++, Java, PHP, JavaScript, Python

Web/App Development: HTML, CSS, Bootstrap, ReactJs, Django

Database: MySQL, MongoDB

Tools: Netlify, Google Cloud Platform, AWS (EC2), Microsoft PowerBi, Tableau, Ms. Excel