

# Aryan Jagani

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## EDUCATION

**Shah And Anchor Kutchhi Engineering College**  
*B.E. in Computer Engineering (CGPA: 8.8)(till sem 6)*

**2020-2024**  
*Mumbai, India*

## WORK EXPERIENCE

### Bharat Intern

**August 2023-September 2023**

Machine Learning Intern

- Worked on 3 Machine Learning Models
- 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

### Edunet Foundation

**June 2023 – July 2023**

*Artificial Intelligence Intern*

- 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%
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### Shah And Anchor Kutchhi Engineering College

**Nov 2021 - Mar 2022**

*Simulation Developer*

- 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

- 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

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

### Mental Health Fitness Tracker | NumPy, Matplotlib, Scikit, Regression

- 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.

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

## SKILLS

- **Languages:** C, Python, Javascript, Java, PHP.
- **Web/App Development:** HTML, CSS, Bootstrap, ReactJs, Django
- **Database:** MySQL, MongoDB, Google Firestore.
- **Tools:** Netlify, Google Cloud Platform, AWS (EC2, Kinesis, Lambda), Microsoft PowerBi, Tableau, Ms. Excel

## PUBLICATIONS/RESEARCH PAPER

### **"CogniPoseAI: A Futuristic AI-Enhanced Personal Trainer, International Conference on Self Sustainable Artificial Intelligence Systems [ICSSAS 2023], Erode, India, October 2023**

- The paper discusses pose estimation using deep learning and machine learning approaches to analyze performance
- Provides real-time feedback repetitions.
- The application of machine learning in the fitness industry could potentially aid judges in accurately monitoring the number of repetitions executed during weightlifting or CrossFit competitions.

## EXTRA-CURRICULAR ACTIVITIES

- Cybersecurity, Web development Workshop

- Volunteer for a blood donation center in local camp
- Beach Cleaning Volunteer

#### **COURSES&CERTIFICATIONS**

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|---|-------------------|
| • Artificial Intelligence and Machine Learning            | <b>June 2022</b>  |
| • Programming For Everybody (Getting Started with Python  | <b>June 2022</b>  |
| • Build Websites Like Pro                                 | <b>Dec 2022</b>   |
| • Introduction to Data Science                            | <b>March 2023</b> |
| • Certificate for the Completion of Python 3.4.3 Training | <b>March 2022</b> |