

KOTHARIYA MOHAMAD ARMAN

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📍 Gujarat, India

Artificial Intelligence — Brain-Computer Interface (BCI) — Healthcare AI

Education

CHARUSAT University, Gujarat, India
B.Tech in Information Technology

Expected 2027

Research Focus

Artificial Intelligence for Healthcare, Brain-Computer Interfaces, Neurotechnology, Human-Computer Interaction

Skills

- **Programming:** Python, C++, Java, SQL
- **Machine Learning:** Scikit-learn, Pandas, NumPy, Feature Engineering, Classification Models (SVM, Random Forest, KNN)
- **AI & Data:** EEG Signal Processing, Data Preprocessing, Pattern Recognition
- **Tools/Frameworks:** Streamlit, Next.js, Git, Google Colab

Experience

AI Research Intern – Coding Jr. / Planto.ai

6 months

🔗 Project Link

- Developed components of a multimodal AI system for generating UI code from text and image inputs
- Implemented Text-to-Code and Image-to-Code functionality using API-based AI models
- Built an interactive interface with chat input, code output, and live preview
- Worked with Next.js and TypeScript for frontend integration
- Improved system usability through testing and debugging

Projects

Emotion-Aware Brain-Computer Interface (BCI) for Music Control

🔗 Link

- Developed an EEG-based system for emotion classification using the Jordan J. Bird EEG dataset (Kaggle)
- Implemented machine learning models including SVM, Random Forest, and KNN for emotion prediction
- Designed a full pipeline involving signal preprocessing, feature extraction, and classification
- Processed EEG signals across multiple samples to identify patterns from noisy biomedical data
- Built a prototype that maps predicted emotional states to real-time actions such as music control
- Exploring extension toward prosthetic arm control using BCI signals

Disease Prediction System using Machine Learning

🔗 Link

- Built predictive models for disease detection using healthcare datasets
- Applied data preprocessing, feature engineering, and classification techniques
- Visualized outputs using Matplotlib for better interpretability

Research & Extracurriculars

Citizen Scientist – International Astronomical Search Collaboration (IASC)

2025 – Present

- Applied data analysis and pattern recognition techniques on astronomical datasets to identify asteroid candidates
- Worked in a collaborative research environment to analyze observational data