

Ayush Chintalwar

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EDUCATION

MIT ADT School of Engineering, Pune
B.Tech. in Computer Science & Engineering
Last Year (LY)

Pune, India
Sept 2022 - Current
CGPA – 8.35/10

WORK EXPERIENCE

MIT ADT University & IS360 Technologies
Brain-Computer Interface (BCI) Intern

Pune, India
Jul 2023 - Dec 2023

- Worked on ADHD Rehabilitation Through Real-Time EEG-Based Neurofeedback and AI
- Researched EEG-based neurofeedback and Slow Cortical Potentials (SCPs)
- Developed machine learning models for EEG signal classification
- Integrated robotic interactions with real-time BCI data

ACHIEVEMENTS

Top 5 National Finalist – UST D3CODE Hackathon 2025
UST Global

Trivandrum, India
Sept 2025

- Ranked in the Top 5 nationally among 25,000+ participants and 6,500+ teams.
- Built an AI-powered analytics dashboard integrating advanced ML pipelines, real-time data visualization, and generative AI components.
- Led data augmentation and GAN-based synthetic data generation to address rare disease dataset imbalance, improving model performance and fairness.
- Designed a hybrid quantum–classical model combining CNN feature extraction with a variational quantum circuit (VQC) for enhanced generalization.
- Collaborated in a cross-functional team, delivering a scalable prototype under tight deadlines.

PROJECT EXPERIENCE

- **ADHD Rehabilitation Through Real-Time EEG-Based Neurofeedback and AI:** Developed an AI-based robotic system for attention tracking and neurofeedback therapy
- **Fuel-Aware Navigation:** Designed a smart navigation solution using ESP32 and sensors that dynamically optimizes routes based on real-time fuel levels, ensuring efficient travel and preventing fuel shortages.
- **SmartBot:** Built an AI-powered robotic system using ESP32 and OpenCV for real-time object tracking, line- following, and autonomous intelligent tasks
- **Chat-with-pdfs:** An intelligent document analysis system that lets you interact with PDFs through natural conversations. By integrating the DeepSeek API and LangChain, this project enables users to extract insights, ask questions, and retrieve specific information from PDF documents in real time.
- **AI-Powered Website Creation Tool:** Frontend Builder is an AI-assisted web development platform built to simplify HTML website creation, editing, and deployment. Designed for both beginners and developers, the tool provides a smooth and interactive experience for building static sites, featuring real-time code editing and intelligent assistance.
- **Artisan AI Assistant:** Developed a voice-driven mobile application enabling local artisans to capture and share their crafts digitally. Leveraged Gemini multimodal AI to generate enriched captions, titles, and hashtags from images and artisan stories, with seamless Instagram publishing and a professional, animation-rich UI/UX.

SKILLS & INTERESTS

Languages: C/C++, Python.

Skills: Machine Learning, Regression Modeling, Natural Language Processing, Data Visualization, Streamlit, LangChain, MySQL, Arduino, ESP32, Microcontrollers, Hardware Prototyping, Arduino IDE, Git & GitHub, Power BI, Fusion360, SolidWorks, Generative AI, Prompt Engineering, Agentic Coding.

Soft Skills: Disciplined, Problem-solving, Fast Learner, Team Collaboration, Creative Problem Solving, Public Speaking (Improving), English, Japanese (N5).

Interests: Cycling, Gym, Tinkering with Electronics.

COURSES

- Oracle Cloud Infrastructure 2025 Certified Generative AI Professional (Oracle)
- ROBO-AI (MyEquation)
- Exploratory Data Analysis for Machine Learning (IBM, Coursera)
- Python and Statistics for Financial Analysis (HKUST, Coursera)
- Generative AI: Prompt Engineering Basics (IBM, Coursera)
- Generative AI Learning Plan for Developers (AWS)
- IBM Machine Learning Professional Certificate (IBM)
- Build Real World AI Applications with Gemini and Imagen (Google Cloud)
- Explore Generative AI with the Gemini API in Vertex AI (Google Cloud)