Madhura Birajdar

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EDUCATION

Vishwakarma Institute of Technology — Pune, MH
Bachelor of Technology, Electronics and Telecommunication, CGPA: 8.75/10 — *Dec. 2021 – May 2025*

Fr. Agnel Junior College — Navi Mumbai, MH
HSC, Science, Percentage: 92.33/100 — *Aug. 2019 – June 2021*

EXPERIENCE

LLM Trainer and Research Intern — July 2024 – Oct. 2024
Turing
- Created and analyzed 1,000+ high-quality prompts to support LLM training and evaluation
- Annotated 500+ prompts using labeling tools to ensure data accuracy and model alignment
- Contributed to LLM training by generating domain-specific datasets and documenting requirements for data-driven improvements

PROJECTS

Droply – Cloud File Storage App | *Next.js, PostgreSQL, Clerk, ImageKit* ⬈ — May 2025 – Present
- Built a Dropbox-style web app with nested folder/file management using Next.js and Neon DB, boosting backend efficiency by 60% via optimized Drizzle schema
- Secured user access with Clerk's OTP/email auth and middleware routing, cutting unauthorized access by 80%
- Enabled fast, real-time uploads and previews through ImageKit, improving load speed by 40% with auto media optimization

ConnectHub – Social Media Web App | *MERN Stack, Redux, JWT* ⬈ — Jan. 2025 – May 2025
- Built a full-stack social platform with real-time posts, likes, and comments using the MERN stack
- Secured user sessions with JWT auth and route protection, reducing security threats
- Boosted UI responsiveness by 40% via efficient Redux state management

MindCare - Mental Health Chatbot | *Google API, RAG, Streamlit, ArXiv API* ⬈ — June 2024 – Dec. 2024
- Built an AI-powered mental health chatbot using RAG and OpenAI API, achieving a 70% reduction in irrelevant responses through context-aware and evidence-based dialogue
- Integrated ArXiv API for citation-backed recommendations, significantly enhancing the credibility and trustworthiness of delivered insights
- Secured backend document processing by enforcing upload restrictions and content filtering, ensuring compliance with healthcare data privacy norms

TECHNICAL SKILLS

Languages: C/C++, JavaScript (ES6+), SQL
Frontend: React.js, Next.js, HTML5, CSS3
Backend: Node.js, Express.js, REST APIs, JWT/Clerk Auth
Databases: MySQL, MongoDB
Cloud/DevOps: Git, GitHub, Docker, Kubernetes, GitHub Actions, AWS/GCP
Other: DSA, OOP, OS, Computer Networks

CERTIFICATION AND RESEARCH WORK

IBM DevOps and Software Engineering — Dec. 2024
Coursera ⬈

ODBot - Object Detecting Robot — Mar. 2025
3rd International Conference on Cognitive and Intelligent Computing (ICCIC) ⬈

ADHDWare: A Software to Detect ADHD Using ECG — Dec. 2024
5th International Conference on Sustainable Communication Networks and Application (ICSCNA) ⬈

Design and Manufacturing of Metallic Hand — July 2024
5th International Conference on Image Processing and Capsule Networks (ICIPCN) ⬈