

VAISHNAVI POTI

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EDUCATION

University of Mumbai – Thadomal Shahani Engineering College <i>Bachelor of Engineering (Artificial Intelligence and Data Science) (Current GPA: 8.83 / 10)</i>	Expected: June 2026 <i>Mumbai</i>
• Computer Networks, Operating Systems, Database Management, Deep Learning, NLP	
S.I.E.S College of Arts, Science and Commerce <i>Higher Secondary School Certificate (Percentage: 86.5)</i>	March 2022 <i>Mumbai, India</i>
• Courses: Computer Science, Physics, Chemistry, Mathematics	
Swami Vivekanand High School <i>Secondary School Certificate (Percentage: 93.4)</i>	March 2020 <i>Mumbai, India</i>

INTERNSHIPS

Government of Maharashtra <i>Web Team Lead and Fullstack Developer</i>	November 2024 – May 2025 [Certificate] <i>Mumbai</i>
• Led a team of 8 to build the digital platform for the Maha CSR Summit 2025, including a real-time slot booking system, payment integration and automation.	
• Architected and deployed scalable backend systems using AWS Amplify, DynamoDB, and Route 53, ensuring reliability during high-traffic event periods.	
Dalsey, Hillblom and Lynn (DHL) <i>Data Analytics Intern</i>	June 2024 – July 2024 [Certificate] <i>Andheri, Mumbai</i>
• Built interactive Power BI dashboards to analyze delivery efficiency, route performance, and operational cost metrics across regions.	
• Automated reporting workflows using Power Automate, improving operational visibility and contributing to a 15% efficiency increase.	
Outlier AI <i>RLHF Trainer</i>	Part-Time, 2023 – 2024 <i>Remote</i>
• Evaluated and refined model outputs across text and multimodal tasks using Reinforcement Learning from Human Feedback (RLHF).	
• Provided structured annotations and comparative scoring to improve reasoning, alignment, and user-response quality.	

SKILLS

Frameworks: React.js, Next.js, Flask

Languages and Technologies: Python, JavaScript (JS), C, Java, HTML, CSS

Databases: MySQL, MongoDB, Firebase, Pinecone, DynamoDB

Platforms: GitHub, Firebase

Version Control: Git

CI/CD: GitHub Actions, AWS Amplify

ML Frameworks: Tensorflow, Pytorch, Scikit-Learn, Hugging Face, Langchain, LangGraph

Tools: Power BI, Power Automate, Kali Linux (Burpsuite, Nmap, SQLmap)

PROJECTS

Multi-Agent System for Adaptive Production Scheduling <i>LangChain, LangGraph, CrewAI, Python</i>	
• Developed and compared three multi-agent architectures (pure Python, LangChain, CrewAI/LangGraph) for dynamic job scheduling and resource allocation.	
• Implemented custom agent communication protocols, role-based agent teams, and adaptive state routing to handle delays, machine downtime, and priority shifts.	
• Benchmarked throughput, idle time, and rescheduling latency to evaluate performance trade-offs across each MAS design.	
Custom University-Specific Small Language Model (SLM) <i>Python, NumPy</i>	
• Built a transformer-based Small Language Model entirely from first principles, including custom tokenizer, attention layers, and gradient updates.	
• Trained on curated university-specific datasets to answer academic, admission, and campus-related queries with improved contextual accuracy.	
• Achieved higher relevance and reduced hallucination compared to retrieval-only baselines.	
InkChat <i>Next.js, TypeScript, WebSockets</i>	
• Developed a real-time collaborative whiteboard with simultaneous drawing, annotation, and chat interactions.	
• Implemented synchronized canvas updates with low-latency WebSocket communication for multi-user consistency.	
• Optimized rendering and data flow to ensure smooth performance during large collaborative sessions.	
Farmissan <i>React.js, Firebase</i>	
• Built a farm-to-consumer marketplace enabling direct sales and improved revenue for producers.	
• Implemented real-time product listings, geolocation-based discovery, and secure authentication/workflows using Firebase services.	
• Added review and feedback features to increase trust and improve repeat user engagement.	

EXTRACURRICULARS

AceRyx <i>Lead Founder & Developer</i>	Sept 2025 – Present Remote
• Found and lead a services platform offering custom website development, chatbot solutions, and digital consulting services. • Spearhead end-to-end project delivery from client consultation to implementation, focusing on tailored AI-driven solutions.	
NeedForCode 3.0 Hackathon (Winner) <i>National Level Hackathon</i>	Aug 2024 [Certificate] Mumbai, India
• Led development of <i>DigiDaani</i> , a MERN-based ration distribution platform with real-time inventory tracking. • Implemented secure authentication and 360° face verification using MediaPipe to prevent identity misuse.	
Codeissance (First Runner-Up) <i>National Level Hackathon</i>	Sept 2024 [Certificate] Mumbai, India
• Built <i>Place-U</i> , a placement and interview-preparation platform with ML-driven interview feedback and resume scoring. • Implemented mock interview simulations, chatbot workflows, and resume-builder modules.	
AI Challenge (Second Place) <i>National Level Hackathon</i>	Sept 2024 [Certificate] Mumbai, India
• Created analytical dashboards and cybersecurity risk assessment reports highlighting AI-driven anomaly detection.	
Picture This Photography Competition <i>First Runner-Up</i>	March 2024 Mumbai, India
• Secured first runner-up position in competitive photography contest showcasing creative vision and technical photography skills.	

VOLUNTEERING

Science O Mania, Exhibition Fair <i>Student Mentor</i>	Nov 2025 Mumbai, India
– Guided Grade 12 students in developing a hardware-based soil monitoring and analysis system for the exhibition.	
Social Media Bots <i>Developer</i>	2023 – 2024 Remote
– Developed and maintained scalable automation bots for Discord and Reddit communities serving 23M+ collective users.	
InAmigos Foundation <i>Volunteer</i>	[Certificate] Mumbai, India
– Assisted in planning and executing social welfare programs supporting marginalized communities.	
Ratna Nidha Charitable Trust <i>Book Collection Drive Organizer</i>	Mumbai, India
– Led a community-driven book donation initiative to expand educational access for underprivileged students.	

RELATED COURSEWORK AND CERTIFICATES

Certificates

- [Stock Market and Finance](#)
- [Python Programming](#)
- [Web Development](#)
- [Data Analytics with Python](#)
- [Google Cloud](#)

ADDITIONAL SKILLS

Languages: Languages: English, Hindi, Marathi, Kannada, Tulu (fluent); Conversational French

Martial Arts: Winner of multiple national and international level karate championships; Dan 1 Black Belt holder