VAISHNAVI POTI

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EDUCATION

University of Mumbai – Thadomal Shahani Engineering College — **Expected: June 2026**
Bachelor of Engineering (Artificial Intelligence and Data Science) (Current GPA: 8.83 / 10) — *Mumbai*
- Computer Networks, Operating Systems, Database Management, Deep Learning, NLP

S.I.E.S College of Arts, Science and Commerce — **March 2022**
Higher Secondary School Certificate (Percentage: 86.5) — *Mumbai, India*
- Courses: Computer Science, Physics, Chemistry, Mathematics

Swami Vivekanand High School — **March 2020**
Secondary School Certificate (Percentage: 93.4) — *Mumbai, India*

INTERNSHIPS

Government of Maharashtra — **November 2024 – May 2025** [Certificate]
Web Team Lead and Fullstack Developer — *Mumbai*
- Led a team of 8 to build the digital platform for the Maha CSR Summit 2025, including a real-time slot booking system and PhonePe payment integration.
- 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) — **June 2024 – July 2024** [Certificate]
Data Analytics Intern — *Andheri, Mumbai*
- 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 — **Part-Time, 2023 – 2024**
RLHF Trainer — *Remote*
- 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 | *LangChain, LangGraph, CrewAI, Python*
- 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) | *Python, NumPy*
- 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 | *Next.js, TypeScript, WebSockets* — **Jul 2022 – Nov 2022**
- 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 | *React.js, Firebase*
- 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 **Aug 2025 – Present**
Lead Founder & Developer *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.

Competitive Programming & Hackathons **2023 – 2025**
Technical Lead *Mumbai, India*
- Participated in 10+ national-level hackathons, securing multiple top-3 finishes with a focus on AI/ML-driven problem solving.
- **NeedForCode 3.0 Hackathon (Winner, 2024)**
  – Led development of *DigiDaani*, 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, Sept 2024)**
  – Built *Place-U*, 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 Competition (Second Place, 2024)**
  – Created analytical dashboards and cybersecurity risk assessment reports highlighting AI-driven anomaly detection.

VOLUNTEERING

Science O Mania Science Fair **Nov 2025**
Student Mentor *Mumbai, India*
– Guided Grade 12 students in developing a hardware-based soil monitoring and analysis system for exhibition.

Social Media Bots (Open Source) **2023 – 2024**
Developer *Remote*
– Developed and maintained scalable automation bots for Discord and Reddit communities serving 23M+ collective users.

InAmigos Foundation **[Certificate]**
Volunteer *Mumbai, India*
– Assisted in planning and executing social welfare programs supporting marginalized communities.

Ratna Nidha Charitable Trust
Book Collection Drive Organizer *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: Fluent in English, Hindi, Marathi, Kannada, and Tulu; Speaking knowledge of French