

MOURYA S

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Education

Dr. Ambedkar Institute Of Technology,

Bangaluru, India

Bachelor of Engineering – Artificial Intelligence And Machine Learning

2023 – Present

Skills

- **Programming Languages:** Python, C, C++, Java (Intermediate), JavaScript, HTML, CSS
- **Frameworks:** Fast API, Flask, React, Flutter, Node.js, Android Studio
- **Developer Tools:** Git, Docker, Google Cloud Platform, VS Code, Figma, PyCharm, Pytorch, Anaconda
- **Libraries:** TensorFlow, PyTorch, Matplotlib, Keras, SpacePy, Pandas, NumPy, Streamlit, Seaborn, SciPy
- **Soft Skills:** Leadership, Event Management, Writing, Time Management, Video Editing

Projects

Stimulation Of Atom | C++

- The program visualizes the process of photon emission and amplification using graphical representations.

BinGuardian | React, React.js, Node.js, Python, FireBase.

- Developed BinGuardian, an AI-powered smart waste management system that automates garbage level detection and optimizes collection routes for urban sustainability.
- Integrated IoT sensors and a cloud-based dashboard to provide real-time monitoring, reducing overflow and improving municipal waste efficiency.
- Implemented a smart alert mechanism and predictive analytics to promote cleaner cities and support data-driven urban planning.

CalmPulse | Python, OpenCV, TensorFlow, Node.js, React.js, JavaScript,

- Developed CalmPulse, an AI-powered voice emotion analyzer that detects stress, anxiety, and depression through real-time speech pattern recognition.
- Designed and implemented advanced algorithms to analyze tone, pitch, and sentiment, providing actionable insights for mental health monitoring.
- Created a user-friendly system for continuous mental well-being tracking, aimed at improving early detection and intervention strategies.

GramArogya | Python, CUPID, OpenCV, TensorFlow, React, Node.js

- Developed an AI-powered mobile solution for rural women's health, featuring menstrual and pregnancy tracking (including womb weight analysis, nutrition tips, trimester care, and doctor reminders), along with sanitary napkin recycling awareness.
- Integrated a mental health analyzer for both rural and urban users, using voice/text-based emotional analysis.
- Focused on digital health accessibility with a simple UI, multilingual support, and offline functionality.

MoYa - Virtual Assistant | React.js, JavaScript,

- Developed a modern virtual assistant web application with natural language processing capabilities, featuring real-time chat interface, context-aware responses, and mobile-responsive.

SkySync - Weather Application | React, TypeScript, Tailwind CSS

- SkySync is a smart and sleek weather forecasting web app that provides instant weather updates for cities across the globe.

Achievements

- **Hack Fest'25 (Bangalore Technological Institute) – Winner** **Apr '25**
- **Namma Suraksha (Presidency University, Bengaluru) – 4th Place** **Apr '25**
- **Code Breaker Challenge (Global Academy of Technology, Bengaluru) – 6th Place** **May '25**

Certificates & Workshops

- IBM Certified: Artificial Intelligence
- Google Certified: Google Cloud
- Google Certified: Machine Learning Operations
- Meta Certified: Mobile App Development
- IBM Certified: CyberSecurity

Volunteer Experience

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| Colossus 2.0 - Technical Team Lead & Designing Volunteer | Bangaluru, India |
| <i>Organized Colossus 2.0 a 24 Hour Hackathon at the campus, having more than 250+ Teams</i> | <i>Jan '25 – Apr '25</i> |
| Google Developer Groups - Technical Team Lead & Designing Volunteer | Bangaluru, India |
| <i>Organized technical events attracting 600+ participants and dealt with sponsorships</i> | <i>Jan '25 – Apr '25</i> |