Mausamkumari Thakur

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BRIEF SUMMARY

Currently pursuing a Bachelor of Technology in Information Technology at MIT ADT, Loni. Known for strong work ethic, Self-motivation, Good analytical and documentation skills and a passion for building meaningful tech solutions. Skilled in user experience design and software development, with proficiency in Java, Python, SQL, data structures, OOP, AWS Certified Cloud, and web/cloud technologies. A creative problem-solver committed to continuous learning and staying updated with emerging technologies.

EDUCATION

MIT Art, Design and Technology University, Pune
Bachelor of Technology - Information Technology and Engineering; CGPA: 6.84/10 *Aug 2022 - May 2025*

Courses: *Data Structures, Operating Systems, Database Management Systems*

MIT Polytechnic, Kothrud, Pune
Diploma in Electronics and Telecommunication | Percentage: 74.24% *Sep 2019 - Aug 2022*

Kai Dada Raw Karad Vidyalaya, Ambajogai
Secondary School Certificate (10th) | Percentage: 77.00% *April 2013 - March 2019*

SKILLS SUMMARY

Languages: Java, Python**,** Data Structures, Object-Oriented Programming, Computer networking.
Backend Framework : Spring Boot
Web development : HTML, CSS , Javascript.
Databases: SQL, MongoDB
Tools & Platforms: Figma, Canva, Tableau, AWS Cloud Platform.
Soft Skills: Leadership, Documentation, Team Collaboration.

PROJECTS

- **Optimal Container Capacity and Sewer Management using ML**:
  Designed a smart manhole detection system using IoT and ML to prevent accidents caused by sewer overflows. Developed a predictive model using real-time data from gas, humidity, and float sensors via Arduino Uno. The solution includes five integrated modules focusing on real-time analysis, monitoring, and alerting to improve safety for workers. It offers remote access and reduces human error through automation and real-time notifications.
  Skills/Tools: Machine Learning, IoT, Arduino Uno, Sensors (Gas, Humidity, Float), Web Development, Real-time Monitoring, Team Collaboration

- **Countering Deep Fake Video Using Blockchain**:
  Developed a decentralized system using blockchain technology to verify video authenticity and combat deep fake threats. Ensured videos remain tamper-proof and traceable to their source. Utilized the immutability and transparency of blockchain to enhance digital media verification and reduce misinformation

  Skills/Tools: Blockchain, Cryptography, Decentralized Systems, Video Processing, Cybersecurity, Research & Documentation

- **MAHACOAST: Smart Travel Platform for Coastal Destinations in Maharashtra :**
  Built a web and mobile-friendly platform providing real-time data on beach safety, weather, and nearby attractions to boost coastal tourism in Maharashtra. The platform serves tourists, locals, and fishermen with reliable alerts and recommendations using APIs and responsive design.

  Skills/Tools: Web Development, UI/UX Design, Real-time Data Integration, APIs, Mobile-Friendly Design, Figma, HTML, CSS, JavaScript

PUBLICATION

IJSREM – *Crop Monitoring and Controlling System* (ISSN: 2582-3930)

Developed a crop monitoring and controlling system to support greenhouse cultivation of climate-sensitive crops like saffron and strawberries. Utilized sensors and automation to monitor and regulate growth conditions under a controlled environment. Published in IJSREM (ISSN: 2582-3930). [Link]

Experience

- **Web Developer – Infotact Solutions (Jan 2025 – April 2025)**

As a Web Development Intern, I worked on both frontend and backend technologies to build responsive and user-friendly websites. I used HTML, CSS, JavaScript, and Bootstrap for frontend development and implemented features such as form validation, dynamic content loading, and mobile responsiveness. One of the key projects I contributed to was a job application portal, where I helped design and develop the login and data storage modules.

On the backend, I worked with Node.js, Express.js, and MongoDB to handle server-side logic and database operations. I also used Git and GitHub for version control and team collaboration. This experience gave me practical exposure to full-stack development, debugging techniques, and writing clean, maintainable code in a real-world environment.

- **Fume Recognition using Intelligent Chamber Analyzation System**
  Hackathon Project | IIP Series | Mentor: Dr. Aaysha Butaliya | Team of 4
  Tools & Skills: Arduino Uno, Gas & Humidity Sensors, Web Development, Real-Time Monitoring, Research Documentation

Developed a smart manhole detection system to prevent accidents in drainage chambers using sensor-based monitoring. Integrated gas, humidity, and floating sensors with Arduino to detect toxic gases, water overflow, and temperature fluctuations. Built a web portal for citizens to register complaints and for authorities to access real-time data remotely. Contributed to real-time testing, alert system logic, and drafting of a research paper on predictive clogging models. Enhanced safety by automating alerts and reducing manual chamber checks.

EXTRA CURRICULAR ACTIVITY

- Video editing enthusiast with experience in Adobe and Cap-Cut
- Passion for travel, arts, and craft.
- Participated in college-level hackathons and UI/UX design webinar