Bhoomika Surve

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Education

Bachelor of Engineering in Computer Engineering **Nov 2022 – Present**
Vidyavardhini's College of Engineering & Technology *Vasai, Maharashtra*

- Relevant Coursework: Operating Systems, Computer Networks, Database Management, Object-Oriented Programming, Data Structures, Algorithms

Technical Skills

Programming Languages: Python, C, SQL, JavaScript, HTML, CSS
AI/ML Technologies: TensorFlow, Keras, OpenCV, Natural Language Processing, Computer Vision, Deep Learning, Machine Learning
Frameworks & Libraries: Flask, Django, Google Generative AI, Pygame, Chart.js, TailwindCSS, NumPy, Pandas
Databases & Tools: MongoDB, Firebase, MySQL, Git, GitHub, RESTful APIs, Version Control, Docker
Cloud & Platforms: Google Cloud Platform, Firebase, Blockchain Technologies

Experience

Software Development Intern **Jul 2025 – Present**
Impetus Techsoft Pvt. Ltd. *Navi Mumbai, Maharashtra*

- Contributing to enterprise software development projects using modern technology stack and agile methodologies
- Collaborating with cross-functional teams to deliver high-quality software solutions for client requirements

Python Development Intern **Dec 2023 – Jan 2024**
CodSoft *Remote*

- Developed Python automation scripts and backend systems for web applications using Flask framework
- Implemented data processing pipelines and API integrations, improving system efficiency by 25%

Projects

Farm Assistant Hub | *Flask, TensorFlow, Google Generative AI, MongoDB* **Feb 2025 – Mar 2025**

- Developed deep learning model for crop disease detection achieving 95% accuracy on 30,000+ annotated leaf images using TensorFlow and computer vision techniques
- Engineered multilingual diagnosis system supporting 8+ Indian languages through NLP integration and Google Generative AI
- Built scalable REST API with 8+ endpoints using Flask and MongoDB, handling 10,000+ real-time agricultural data entries

EmotionView Interview Analysis System | *Flask, TensorFlow, Computer Vision, OpenCV* **Jan 2025 – Feb 2025**

- Engineered a real-time facial emotion analysis system trained on the FER-2013 dataset using computer vision and OpenCV
- Trained machine learning classifiers on 5 emotion classes achieving 88% accuracy in identifying candidate confidence patterns
- Constructed automated question generation system using NLP, reducing interviewer preparation time by 40%

MediConnect - Blockchain Healthcare Platform | *Blockchain, Flask, MongoDB* **Jun 2025**

- Led team of 4 developers to build blockchain-powered medicine shortage detection platform during 24-hour hackathon
- Implemented patient portal for pharmacy discovery and real-time inventory reporting using Flask and MongoDB
- Designed tamper-proof blockchain backend ensuring data transparency, integrity, and secure medical record management

Achievements & Leadership

SBI Hack-AI-Thon 2025 **Top 12**
Led cross-functional team among 100+ teams with AI-based fraud detection solution

AIMSR Hackathon 2025 **First Runner-Up**
Built an AI-powered fitness platform with personalized workout recommendations

National Paper Presentation **3rd Position**
Secured 3rd position at NSC-ETT conference on emerging AI technologies

Multiple Hackathon Success **Top Performer**
Top 50 finishes at Agri-Tech Hackathon (300+ teams) and Hackanova 4.0 (350+ teams)