

Sahil Murhekar

AI and machine learning professional with practical deep learning skills and leadership experience. Dedicated to advancing in AI through active involvement in academic clubs, projects, and internships.

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[Github](#) | [Portfolio](#) | [LinkedIn](#)

EXPERIENCE

Prezitec Health Pvt. Ltd., On-site — Deep Learning Intern

JULY 2024 - PRESENT

- Developed an image processing pipeline using deep learning, implemented in 3 projects to enhance targeted marketing analysis
- Created a user-friendly interface for SONAR-based injections, reducing staff training time by 40%
- Engineered an improved needle design, increasing precision by 30% and accuracy by 25%
- Implemented quality controls that reduced manufacturing defects by 50%

24buy7, On-site — Web Developer Intern

JUNE 2024 - JULY 2024

- Utilized Figma and MERN stack to build full-stack applications 30% faster
- Designed and implemented a responsive website, increasing mobile engagement by 40%
- Created a marketing website with automated contact form and feedback display, resulting in a 40% increase in customer inquiries

Wissenaire, IIT Bhubaneswar, Remote — Machine Learning Intern

AUG 2023 - NOV 2023

- Performed exploratory data analysis on diverse datasets, improving model performance by 25%
- Implemented optimized models like LightGBM and XGBoost, reducing training time by 40%
- Deployed models in production, enhancing prediction speed by 30%

SKILLS

Programming: C, C++, Python, Java, SQL

AI/ML: Machine Learning, NLP, Deep Learning, Data Analysis, Computer Vision

Tools: Numpy, Pandas, Scikit-learn, Tensorflow, Mediapipe, Matplotlib

Web Development: HTML, CSS, JavaScript, Figma, Flask, Django

Other: IoT, Git, Github, Linux

ACHIEVEMENTS

- CATERpillar Code-a-thon 2024: **Finalist** in the competition.
- Reviewed 50+ hackathon projects** in multiple hackathons, leading the technical team.
- Participant in DEVSOC22, an international Hackathon.

PUBLICATIONS

Suffocation Detection Using IoT and Machine Learning (patent and paper under process)

- Utilized Arduino, MQ sensors, DHT-11, and Machine Learning to measure air quality and predict suffocation risk at a specific location. Gathered raw data and applied ML for analysis.

PROJECTS

VisibleVoice.AI([Link](#))

- Integrated Computer Vision and Deep Learning models for real-time translation of 30+ signs
- Improved machine learning algorithms to achieve 95% accuracy, reducing translation errors by 60%

CATCare.AI([Link](#))

- Enhanced Caterpillar Inc.'s predictive maintenance platform, improving failure prediction accuracy by 30%
- Developed machine learning algorithms to increase data processing speed by 150%
- Created a user-friendly dashboard, reducing maintenance planning time by 50% and unplanned downtime by 25%

Vedassist([Link](#))

- Developed an ML web platform for Ayurvedic medicine recommendations with 90% accuracy
- Integrated PayPal and e-commerce features, increasing user engagement by 40%

EDUCATION

Vellore Institute of Technology, Vellore — Bachelor of Information Technology

SEP 2022 - PRESENT

CGPA: 9.00

- Focus: Programming, Data Structures and Algorithms, DBMS, IoT, AI/ML, and Development
- Chairman, AI & ML Club: Organized events and workshops to promote AI/ML knowledge
- Soft Skills: Leadership, Problem Solving, Critical Thinking, Communication

CERTIFICATIONS

Linkedin Certified [Figma Designer](#) | NASBA Certified [SQL Developer](#) | Microsoft Certified [AI&ML Enthusiast](#) | Udemy Certified [Digital Marketer](#), [AI ML Developer](#).

LANGUAGES

English | Hindi | Marathi