

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.

EXPERIENCE

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

JULY 2024 - JAN 2025

- Built a deep learning-based image processing pipeline, driving targeted marketing insights across three projects.
- Crafted an intuitive interface for SONAR-based injections, reducing staff training time by 40%.
- Enhanced needle precision by 30% and accuracy by 25% through design refinements.
- Strengthened quality control processes, reducing manufacturing defects by 50%.

24buy7, On-site — Web Developer Intern()[\(Link\)](#)

JUNE 2024 - JULY 2024

- Developed full-stack applications with Figma, Framer and HTML, CSS, JS accelerating development cycles by 30%.
- Created a responsive website, leading to a 40% boost in mobile engagement.
- Introduced an automated contact form, resulting in a 40% rise in customer inquiries.

PROJECTS

VisibleVoice.AI[\(Link\)](#)

- Spearheaded the development of a real-time hand sign recognition app using Streamlit, OpenCV, and MediaPipe, training the model from scratch.
- Incorporated Google Gemini API for sentence generation and gTTS for text-to-speech conversion.
- Revamped the UI with live video streaming and interactive controls, improving accessibility and driving 100+ weekly interactions.
- Applied caching and session state management, ensuring smooth performance.

PrepAI[\(Link\)](#)

- Built an AI-powered interview preparation platform with Streamlit, used by 200+ students with a 92% satisfaction rate.
- Generated 1,000+ customized technical questions spanning 15 tech stacks and 8 experience levels.
- Enhanced 175+ resumes with tailored suggestions, reducing preparation time by 60%.
- Increased interview success rates by 45% across 12 colleges.

Vedassist[\(Link\)](#)

- Designed an ML-powered Ayurvedic medicine recommendation system leveraging Django, Python, and Random Forest, achieving 90% accuracy.
- Integrated PayPal and e-commerce, increasing user engagement by 40%.
- Refined backend and UI for scalability, delivering a seamless user experience.

EDUCATION

Vellore Institute of Technology, Vellore — Bachelor of Information Technology

SEP 2022 - PRESENT

CGPA: 8.86/10

- Coursework: Programming, Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Information Security
- Soft Skills: Leadership, Problem-Solving, Critical Thinking, Communication.

VOLUNTEERING

Tech-Ops Lead, The AI & ML Club (TAM-VIT)

JAN 2025 - PRESENT

- Oversee technical infrastructure and event coordination, growing up the technical aspects of the club by 30%.
- Maintains the club's technical resource repository for knowledge sharing.

Vice-Chairman, The AI & ML Club (TAM-VIT)

JAN 2024 - DEC 2024

- Led 30+ AI/ML workshops and events, attracting 100+ attendees.
- Designed an ML project curriculum, mentoring 50+ members and guiding research publications.

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

SKILLS

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

AI/ML: Machine Learning, NLP, Deep Learning, Data Analysis, Computer Vision, Image Processing, Object detection, Numpy, Pandas, Scikit-learn, Tensorflow, Matplotlib, Seaborn

Big Data:, Spark, Hadoop, Hive, Hbase, Cassandra, MongoDB

Web Development: HTML, CSS, JavaScript, TailwindCSS, Streamlit, Figma, Flask

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.
- Participated 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 risks.

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