

Sahil Murhekar

An AI and machine learning professional with practical deep learning skills and leadership experience. Committed 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 - PRESENT

- Built a deep learning image processing pipeline, now used in 3 projects, enhancing analysis for targeted marketing.
- Created a user-friendly interface for SONAR-based injections, cutting staff training time by 40% and boosting satisfaction.
- Engineered an improved needle design, increasing precision by 30% and accuracy by 25%. Implemented controls that halved manufacturing defects, enhancing patient safety.

24buy7, On-site — Web Developer Intern

JUNE 2024 - JULY 2024

- Learned Figma and MERN stack, building full-stack apps 30% faster. Implemented responsive design, boosting mobile engagement by 40%.
- Developed a marketing website with features like feedback display and contact form email sending during my internship.

Wissenaire, IIT Bhubaneswar, Remote — Machine Learning Intern

AUG 2023 - NOV 2023

- Conducted comprehensive EDAs on diverse datasets, uncovering key insights that improved model performance by 25% on average.
- Mastered optimized models like LightGBM and XGBoost, reducing training time by 40% while maintaining accuracy. Implemented these models in production, enhancing prediction speed by 30%.

PROJECTS

VisibleVoice.AI([Link](#))

- Integrated Computer Vision and Deep Learning models to enable real-time translation of 30+ signs.
- Enhanced machine learning algorithms, achieving 95% accuracy and reducing translation errors by 60%.

CATCare.AI([Link](#))

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

Vedassist([Link](#))

- Created Vedassist, an ML web platform for Ayurvedic medicine recommendations with 90% accuracy.
- Integrated PayPal and e-commerce efficiently, boosting user engagement by 40%..

EDUCATION

BUJCS, Akola, Maharashtra — High School

JULY 2020 - MARCH 2022

Score: 90.00%

Vellore Institute of Technology, Vellore — Bachelor of Information Technology

SEP 2022 - PRESENT

CGPA: 9.00

- IT student at VIT, Vellore, focusing on **Programming, Data Structures and Algorithms, DBMS, IoT, AI/ML, and Development**. Pursued hands-on projects to build innovative skills.
- **Vice-Chairman, AI & ML Club**: Led initiatives, organized events and workshops to promote AI/ML knowledge and innovation.

Vellore, Tamil Nadu

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

SKILLS

TECHNICAL:

C | C++ | Python | Java | DSA | SQL | Machine Learning | NLP | Deep Learning | Data Analysis | Numpy | Pandas | Scikit-learn | Tensorflow | Meadiapipe | Computer Vision | Matplotlib | HTML | CSS | JS | Figma | Django | MERN | IoT | Git | Github | Linux

SOFT SKILLS:

Leadership | Communication | Management | Editorial | Design | Problem Solving | Time Management | Critical Thinking

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.

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