

TILAK KADLASKAR

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OBJECTIVE

AI & ML engineer with hands-on experience in building computer vision and deep learning solutions. Skilled in model development, image preprocessing, and deployment using Python, PyTorch, and OpenCV. Motivated by solving impactful problems through well-engineered AI systems.

EDUCATION

Bachelor of Engineering , Sai vidya institute of technology	2021 - 2025
Computer science and engineering (AI & ML) - 8.4 CGPA	
Pre-University , Govindram Seksaria Science PU College	2019 - 2021
PCMB - 75%	

SKILLS

Programming Languages	Python, SQL, C, JAVA, HTML, CSS
Libraries & Frameworks	PyTorch, Pandas, NumPy, OpenCV
Machine Learning & AI	Computer Vision, Object Detection, Image Processing
Databases	Oracle SQL, PostgreSQL
Tools & Platforms	Git, GitHub, VS Code, Jupyter Notebook, DigitalOcean, Hostinger

EXPERIENCE

Lab 2 Market Innovations Pvt. Ltd.	15 Jul 2025 - Present
AI intern	<i>Bengaluru, Karnataka</i>
<ul style="list-style-type: none">Contributed to the MVIS (Machine Vision Inspection System) project for automated inspection and defect detection.Built intelligent systems leveraging deep learning and computer vision for real-time monitoring of rolling stock.Gained hands-on experience applying AI and computer vision technologies to enhance transportation safety.	
Analogica	
Machine learning with Python	

Analogica	25 Oct 2023 - 24 Nov 2023
Machine learning with Python	<i>Bengaluru, Karnataka</i>
<ul style="list-style-type: none">Completed hands-on training in core machine learning concepts and practical applications.Gained experience in data preprocessing and building models using Python libraries like NumPy and Pandas	
PROJECTS	

Online event management system - GitHub	2022
A Java-based application with a user-friendly GUI for faculty, students, and coordinators, designed to streamline event planning, registration, and management using object-oriented principles.	

ASL2Text - GitHub	2023
Developed a system that translates American Sign Language (ASL) gestures into text using Python and machine learning. Leveraged TensorFlow and OpenCV for real-time gesture recognition and preprocessing. Enhanced communication accessibility for the people who cannot speak with a model achieving 94% accuracy.	

Vehicle Speed Detection - GitHub	2024
Developed a vehicle speed detection system using computer vision techniques to estimate the motion of moving vehicles from video footage. Used Python and OpenCV for frame processing, object tracking, and speed calculation based on real-time positional changes.	

Smart Parenting - GitHub

2024

Designed and developed an AI-powered tool using Python and machine learning to analyze infant cry from audio signals and decode needs into five categories (hunger, discomfort, belly pain, tiredness, and burping). Integrated additional features like an immunization calendar and parenting resources to assist caregivers in responding effectively.

COURSES AND WORKSHOPS

Java Skill Development — QSpiders, Bengaluru

Bengaluru, Karnataka

11 Oct 2022 – 31 Oct 2022

- Learned core Java concepts with a focus on Object-Oriented Programming.
- Gained proficiency in exception handling, file handling, and Collections Framework.
- Strengthened understanding of Java APIs and their practical application.

Programming in Java Using Data Structures and SQL — QSpiders Campus Connect, Bengaluru

Bengaluru, Karnataka

17 May 2023 – 2 Jun 2023

- Gained hands-on experience using Java data structures and SQL.
- Built a team-based Java application integrating data structures and SQL operations.
- Strengthened skills in software development, implementation, and maintenance using Java.

ACHIVEMENTS

- Presented the research paper "Smart Parenting: AI Tool to Decode Infant Needs" at the INOACC 2025 International Conference, showcasing an AI-based cry analysis model classifying infant needs into five categories.

EXTRA-CURRICULAR ACTIVITIES

- Member, Rotaract Club of SVIT: Actively participate in community service projects, leadership workshops, and fundraising events to promote social welfare and personal development.
- Treasurer, Aiera Club of SVIT: Managed club finances, overseeing budgeting and expenditures, while actively organizing events and promoting innovation within the community.

CERTIFICATES

- Infosys springboard – [Data Structures Using Java](#), [AI with Python](#), [Introduction to Data Science](#)
- LinkedIn Learning – [Introduction to Career Skills in Data Analytics](#)
- HackerRank – [Python \(Basic\)](#)
- Coursera – [Google AI Essentials](#)