

# Saurabh Khushal Gaikwad

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## EDUCATION

**Shri Sant Gajanan Maharaj College of Engineering Shegaon, Maharashtra India.**  
*Final Year Electronics and Telecommunication Engineering*

Sept 2022-Present

## TECHNICAL SKILLS

**Programming Languages:** Python (Pandas, NumPy, Scikit-learn), C, C++, HTML, CSS, SQL

**Frameworks & Libraries:** FastAPI, TensorFlow (Basics), Hugging Face

**DevOps & Cloud:** Docker, Kubernetes (Basics), GitHub Actions, Firebase

**Software/Tools:** Git, Github, Postman, QGIS, Jupyter Notebooks, Figma

**Soft Skills:** Problem Solving, Agile/Scrum, Public Speaking, Logic Building, Team Leadership, Adaptability, Project Management.

## EXPERIENCE

**Apexa iQ (DevOps & Automation Intern)**

Mar 2025

- Optimized operational workflows, developed and tested (Pytest) Python automation scripts (Selenium) and containerized applications (Docker) within a cybersecurity-focused DevOps lifecycle.

**OneSmarter Inc (AI & ML Intern)**

Apr 2023 – Feb 2024

- Led a cross-functional team of 4** to deliver AI-driven solutions for international clients (USA & Israel).
- Collaborated with stakeholders to define product requirements, utilizing NLP techniques to enhance product capabilities.

## PROJECTS

**Saraav – Edtech Platform (React.js, TypeScript, Firebase, Tailwind CSS)** [Link](#)

Dec 2025-Recent

- Developed and launched a full-stack ed-tech platform (saraav.in) for SGBAU engineering students, scaling to **400+ registered users** and **10,000+ page visits**. Implemented AI-driven content generation using Python scripts to automate study material creation. Managed the entire SDLC from architecture design to production deployment and UI/UX improvements.

**Solar Panels Detection from ISRO's Dataset (Tensorflow, Python, CNNs, U-Net, QGIS)** [Link](#)

Apr 2023 – Feb 2024

- The project was implemented for detecting the solar parks from images using the dataset from ISRO's LISS4 sensors using U-net with MobileNet-V2 as the backbone. Competed at the GeoSpatial AI challenge at VNIT Nagpur Organised by ISRO.

**Amazon Reviews Scraper and Data Analysis (Python, Docker, Splash JS, BeautifulSoup, Selenium)** [Link](#)

Mar 2023 – June 2024

- Reviews scraper of an Amazon product using Splash JS with Docker, using libraries like BeautifulSoup v4, requests, pandas, etc. Data analysis of the collected data utilizing LLMs (Claude/ChatGPT) to **generate comprehensive product insights and sentiment analysis for business intelligence**.

**AI Homepage Chrome Extension JavaScript (Javascript, CSS, HTML, Chrome APIs)** [Link](#)

Oct 2023 – Feb 2024

- A new tab extension in the style of macOS which allows you to access all the latest useful AI tools with ease at your homepage. Implemented using HTML, CSS, and JavaScript, and leveraged Chrome APIs for seamless integration.

## PUBLICATIONS, PATENTS and AWARDS

**System for Mapping of Flood and Early Warning Configuration by Means of a UAV**

Patent Pub. No. 202523064402 A | *Published Aug 2025 (Awaiting Grant)*

**Achievement:** Secured **2nd Prize** at **SGBAU University Level Avishkar Competition** and qualified for State Competition.

Designed a UAV-based system for real-time flood mapping and early warnings, integrating AI models (CNNs for image segmentation, LSTMs for forecasting) and 3D mapping tools (ArcGIS) for predictive analysis and post-disaster damage assessment.

## CERTIFICATIONS

- NPTEL Deep Learning - IIT Ropar (Top 1%)
- Google Cloud Data Analytics Certificate
- NPTEL - Introduction To Machine Learning - IIT Madras
- AWS Academy Machine Learning Foundations
- Google Cloud Computing Foundations Certificate
- National Skill Training Institute Ramanthapur Hyderabad – Hands on IOT Training

## VOLUNTEERING

**Google Developer Groups SSGMCE (Core Team Member – AI/ML Lead)**

Aug 2023 -Sep 2025

- Public Speaking & Training:** Delivered workshops for a batch of 60+ students on AI and Machine Learning. Represented our team for Google Solution Challenge 2023 at T-Hub, Hyderabad

**Mozilla Campus Club SSGMCE (Team Member)**

Dec 2022-Dec 2023

- Arranged many technical events including a workshop on AR/VR modelling in Blender