

# Sakshi Varkhede

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## Technical Skills

**AI/ML :** Python, ML, DL, LLMs, NLP, RAG, Prompt Engineering, TensorFlow, PyTorch, Computer Vision |  
**Databases :** PostgreSQL, Supabase, SQLite

**Tools :** Power BI, Excel, Git, GitHub, OpenCV, OpenRouter API, ChatGPT API, SEO Tools

**Soft Skills:** Problem-Solving | Adaptability | Team Collaboration | Fast Prototyping | Prompt Engineering

## Work Experience

### Wildrex IT Solutions

Aahilyanagar, India

July 2025 - October 2025

Data Science Intern

- Developed multiple detection models and AI assistants for various projects, improving automation and user experience across government applications.
- Built scalable government web applications using Next.js full-stack framework with modern technologies and clean architecture.
- Worked with Python and Next.js to deliver end-to-end solutions with seamless integration and optimized performance.

### Webfries IT Solutions

Delhi, India

Jan 2024 – Mar 2024

Digital Marketing Intern

- Developed comprehensive marketing plans and strategies for clients, optimizing digital presence and improving engagement.
- Optimized client websites for SEO using Screaming Frog SEO Spider and implemented digital marketing best practices, improving search rankings.

## Project Work

### Sign Language Recognition & Interactive Communication System

- Implemented video processing with OpenCV and feature extraction mechanisms, reducing data extraction time from complex gestures by 40% and enabling text/speech output for seamless communication.
- Technologies Used: CNN, TensorFlow, OpenCV, Python, Deep Learning, Computer Vision, NLP, Machine Learning.

### AI-Based Prompt Generator

- Built sophisticated web application leveraging LLMs to generate and optimize prompts for AI applications, improving user engagement by 40% and reducing prompt creation time by 50%.
- Integrated multiple LLM APIs (OpenRouter, ChatGPT) for real-time prompt suggestions, reducing iteration cycles through AI-powered optimization and contextual recommendations.
- Technologies Used: Next.js, TypeScript, Tailwind CSS, OpenRouter API, ChatGPT API, LLMs, Prompt Engineering.

### Soil-Based Crop Recommendation System

- Developed IoT-based agricultural system with real-time NPK detection using sensors and Random Forest ML algorithm for intelligent crop recommendations, improving prediction accuracy by 35%.
- Implemented multi-parameter soil analysis (NPK, pH, moisture, temperature) with machine learning models, reducing manual analysis time and providing optimal crop suggestions for farmers.
- Technologies Used: Python, Machine Learning, IoT Sensors, Random Forest, Data Analysis, Sensor Integration, NumPy, Pandas.

## **Education**

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- **Savitribai Phule Pune University** | Matoshri College of Engineering, Nashik (Maharashtra)

**July 2022 - Jun 2025**

*Bachelor of Engineering in Artificial Intelligence & Data Science*

CGPA : 8.76/10

- **Maharashtra State Board** | Janta English School and Jr. College, Saikheda (Maharashtra)

**July 2019 - Jun 2021**

*Higher Secondary Certificate (HSC)*

Percentage : 85%