

# Saad Khan

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## Professional Summary

Innovative Full-Stack Developer with 2+ years of hands-on experience in scalable web solutions, AI/ML pipelines, and cloud-native architectures.

Skilled in JavaScript/TypeScript, Python, React, Next.js, and Langchain, with a track record of delivering user-centric applications, leading crossfunctional teams, and driving impactful ML and NLP projects from prototype to production.

## Professional Experience

### E-CELL SCOE

November 2023 - June 2024

#### Web Developer - Pune, Maharashtra

- Architected web platforms for 3+ startups, boosting user engagement by 45% and conversion rates by 30%.
- Spearheaded initiatives, improving operational efficiency and expanding outreach by 30% through automation.
- Facilitated cross-functional collaboration for 3+ startups, delivering 4 product launches and 10+ feature enhancements.

### EntrepreneurEdge

July 2024 - February 2025

#### Frontend Developer - Pune, Maharashtra

- Engineered highly responsive React interfaces, boosting user engagement by 35% through intuitive design.
- Optimized codebase and tuned performance, reducing page load time by 40% across key applications.
- Accelerated project timelines, delivering MVP within 3 weeks and exceeding client requirements.

## Key Projects

### Smart Crop Disease Detection and Prevention System

Tech Stack: React Native, Expo, NativeWind CSS, Supabase, ESP32, sensors, Fastapi, Scikit learn, Tensorflow, Langchain

- Engineered real-time System using ESP32 sensors, improving crop disease detection accuracy by 94% and potential by 60%.
- Achieved 94% accuracy in crop disease detection using image classification models like MobileNetV2 and InceptionV3.
- Developed 90%+ detection accuracy using hardware components for real-time crop health and environmental monitoring.

### AI-Powered Navigation for the Visually Impaired

Tech Stack: esp32cam module, speaker and microphone module, Embedded C, Python, YOLO, Computer Vision

- Designed & implemented voice-assisted navigation tool, boosting visually impaired user mobility accuracy by 85%.
- Accomplished 92% object detection accuracy, enabling real-time obstacle alerts and enhancing safe navigation.
- Administered 95% face detection accuracy, facilitating real-time recognition and contextual voice feedback for intelligent interaction systems.

### Real-Time Emergency Nurse Alert

Tech Stack: Nodejs, Expressjs, React, Websocket, Nextjs, Tailwindcss, Leafletjs, Openstreetmap, Openrouteservice

- Engineered a Node.js/WebSocket backend with OpenRouteService slashing average nurse dispatch time by 35% and achieving 99% assignment accuracy.
- Built a Next.js SSR frontend with dynamic imports, improving initial render speed by 45%.
- Launched a multimodal Gemini API chatbot plus Web Speech API reminders, securing 95% on-time medication compliance.

## Skills

- **Languages:** C++, Java, Python, JavaScript, TypeScript, HTML, CSS
- **Frontend:** React, Next.js, React Native, Tailwind CSS, Three.js, GSAP
- **Backend:** Nodejs, Expressjs, FastAPI, Flask
- **Database:** MongoDB, Supabase, Firestore
- **Tools:** Git, Github, Docker, Docker Compose, Linux, Postman, Vercel
- **AI/ML Frameworks:** Langchain, Huggingface, Ollama, Scikit-learn
- **Soft Skills:** Problem-Solving, Teamwork, Communication, Leadership, Adaptability
- **Coursework:** Data Structures & Algorithms, Operating Systems, Database Management System, Computer Networks

## Educa tion

### Bachelor of Engineering (B.E.) Computer Engineering (Core)

Aug 2023 - Present (Expected May 2027)

Sinhgad College of Engineering, Vadgaon Bk, Pune

Past CGPA - 8.1

### Senior Secondary Education (Class 12th) - CBSE Board

May 2023

School of Scholars, Atrey Layout, Nagpur

Percentage - 91.4%

### Secondary Education (Class 10th) - CBSE Board

August 2021

D.A.V. Public School, Sundernagar

Percentage - 94.2%