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## Languages

English  
Hindi  
Marathi  
French  
A1

## Technical Skills

### Core Speciality

- Full-Stack Development
- Web Hosting
- Application Architecture
- AI/ML Engineering
- Integrating open-source AI models.
- NoSQL, SQL & Vector database
- Cloud Services

### Core AI Speciality

- Prompt-Based Fine-Tuning
- Vector-Based Fine-Tuning (Embedding Tuning)
- Model-Based Fine-Tuning (Custom Training)

### Proficient

Python, Nodejs, Nextjs, ReactJS, MySQL, MongoDB, Github, AWS (S3 & EC2), REST API's, Generative AI, CSS

### Intermediate

Nestjs, Microservices, C programming, Google Cloud Platform, Cloudinary, VectorDB, RAG, Redis, Redux

### Tools

Git, Swagger, Postman, Bitbucket, Netlify, Versal, Namecheap

### AI Tools

Github Copilot, Chat GPT, Gemini and more

# Siddhesh KHADAPKAR

## Software Engineer

Motivated and adaptable software engineer with 3+ years of experience in software development and AI-driven applications. Seeking challenges to leverage my technical skills to solve existing problems and contribute to product development and improvement initiatives. A collaborative problem-solver with international exposure through an exchange program, bringing technical expertise and a global perspective to dynamic teams.

## Education

### Exchange Semester In Computer science

From February 2024 to June 2024 University of Technology of Troyes Troyes, France  
I successfully completed the program which is an integration to my two years master's program in India.

- Undertook courses focused on - Python, C programming, Interculture business management, CAD - Creo & CATIA, Students Group Project (Farm Bot), French A1.
- Created Backend Banking system with integration of C and Python (CTypes).
- Team Project to analyse a company's eligibility to go International - PEST, SWOT, etc analysis.
- Successfully led a team project on automating agricultural processes using Farm Bot Express XL.

### Masters of Science in Information Technology

From August 2022 to June 2024 Somaiya University Mumbai, India

- *Two years program, Final CGPA: 8.27 / Grade: A*
- *Semester 4: Completed, as an exchange student in France.*
- *IOT mini project: Surveillance Defense System*

### Bachelors of Science in Information Technology

From August 2018 to April 2021 G.N Khalsa College Mumbai, India

- *Three years program, Final CGPI: 7.42 / Grade: B+*
- *Final Year Project: Personal Virtual Assistant, app for Windows (similar to google assistant).*
- *Mini IOT Project: Hand Gesture System Control, for windows developed using Arduino.*

## Work experience

### Software engineer

From August 2021 to October 2025 Herten Technologies Pvt. Ltd. Navi Mumbai, India  
Worked on creating multiple backend REST APIS with NodeJS, ExpressJS, MySQL, and Sequelize.  
Used Multer and the File System on multiple projects.  
Good experience with cloud services like AWS (EC2, S3), GCP services, for hosting and storage.

- **Recommendation System**

Machine learning, Hybrid Filtering (Content-Based Filtering and Collaborative Filtering) to create a recommendation system.

- **Spelling Correction Model**

Created an ML model for Spelling correction with NLTK, Scikit-learn and other packages for NLP. The model is trained on the given 600000 multilingual text words. Deployed on an AWS server, the service is provided using Flask.

- **AI image generation**

Hosted a GenAI image generation server on GCP for text-to-image generation using an existing Stable Diffusion model using Python and provided the service using FastAPI. Created a UI page in Laravel to utilize the above-mentioned image generation API service in an existing project.

- **Traveller Guide Chat Bot**

Engineered and deployed a full-stack GenAI-powered chatbot using Next.js (TypeScript) and GPT-4o LLM OpenAI API to generate personalised, end-to-end travel itineraries.

Integrated the Unsplash API to provide dynamic, image-based outputs and integrated location data to give users specific, actionable information for each destination, enhancing the user experience.

Optimized chatbot performance and minimized latency by implementing response streaming to ensure a quick and seamless user experience.

## Other Skills

**Project Management,**  
**Documentation Management,**  
**Project Co-ordination, Package deployment, .exe creation**

**Video Editing, MS Word,**  
**PowerPoint, Excel, Photoshop**

## Certificates

**LLM Course Huggingface - (2025)**

**Foundations of Project Management - (2025)**

**Cambridge institute: French A1 certificate - (2024)**

**Backend Web Development Program in Django Python - (2022)**

**Machine Learning with Python - (2021)**

**Cyber Security Course - (2021)**

**Angular 8 - (2019)**

## Interests

### Hobbies

Chess, Sketching, Sudoku, Computer Gaming, Develop mini software projects

### Other Interest

Travelling, trekking, reading biographies, mythology and history, watching movies and web series, *Science*

## Social networks

✉️ @siddheshkhadapkar3071

in

@siddhesh-khadapkar-649916176

🗣️ @siddhesh-k

📝 @14332805/siddhesh-khadap

## Work experience

### Software Engineer

From August 2021 to October 2025 Herten Technologies Navi Mumbai, MH, India

- Plugins Frontend development based on the given UI.  
Developed the frontend of 9 plugins and finance UI pages from the given design and templates of a social commerce platform that allows users to create and sell access to various digital products. Used NextJS, VideoJS, Redux toolkit, and TailwindCSS. Plugins consisted of digital products like Courses, Podcasts, Events, Documents, Feeds, Forums, Chats, and Blogs like services.
- Face-Swap Services  
Developed a Deep Fake (AI) technology of Face-Swap service in Python, with OpenCV and PyTorch, which included face swap and an image enhancer to deliver the final image output, using open-source (GAN) models, different models for different Image types. Successfully managed to swap faces from multiple source images with multiple faces.
- Chat Bot - For Real Estate  
Architected an automated system that retrieved and synthesized property data from Vector DB, ensuring quick and accurate responses. A Large Language Model (LLM)-powered RAG chatbot, leveraging Qdrant as a vector database, to deliver human-readable real estate property information. Used the Mistral 8B model as the base LLM model.
- Video Plagiarism Check  
Designed and implemented a video plagiarism detection system featuring an audio-to-text extraction module that achieved a 99% accuracy rate in identifying plagiarised content.  
Engineered a pipeline to extract text from video, perform plagiarism checks against web sources, and flag new entries.  
Automated the plagiarism detection process using a cron job to scan new MongoDB database entries every 5 minutes, ensuring continuous monitoring.  
Also successfully integrated an email service to notify users of the Success or Failure status with a dynamic Email Template.
- Prompt engineering  
Engineered a prompt that, takes news/blog URLs, retrieves the page content and returns it in the required JSON format, while writing scene-wise narration of the news report strictly based on the URL content for AI video generation; deployed as an serverless AWS Lambda service using OpenAI GPT-4o, with no external web crawler, achieving 100% accuracy in the generated narration and the blog content without any hallucinated content.
- GENAI Video Generation  
Architected and deployed a large-scale, 4-server (for test phase) distributed system for an AI avatar video generation platform, improving video processing and generating speed by 20% compared to its competitor through a coarse-grained, parallelized pipeline. An avatar-based core AI video-generator model and computer vision pipeline using OpenCV to provide multiple video editing templates and achieve highly accurate lip-syncing.  
Engineered a robust backend infrastructure with Python's FastAPI, Pytorch, Celery, SQS, and PostgreSQL to manage request handling, ensuring high throughput and scalability.
- GEN AI Audio Generation  
Implemented a voice cloning module to generate text-based audio using open-source multilingual xtts\_v2 model, enhancing the personalization of AI-generated videos.  
Managed end-to-end development, deployment, and MLOps, including API and overall project documentation, Git version control, and Next.js frontend integration.

### Short-Term Contract Project

August 2024 Zero Latency Productions Mumbai, MH, India

- A portfolio website for Creative department to showcase their work.
- Designed using Vuejs and deployed on Netlify.
- Link: <https://zerolatencyproductions.com>

## Personal Projects

### Krishna Consciousness GenAI Chat Application - 2024

- Chat application engineered on top of Bhagawad Gita. This engineered application increases the accuracy of the AI to generate solution more accurately with respect to lord Krishna's teaching based on users daily life problems.
- Developed with Nextjs, CI / CD with Git actions, Deployed on Vercel
- <https://www.krishna-consciousness.site>

### Student AI - 2024

- Designed a scalable Generative AI-based RAG chat application reducing input parameter window to the LLM by 30% using Nextjs, FastAPI, MongoDB, Qdrant and Redis.
- Deployed on AWS with SSL and Domain
- Link: <https://student-ai-backend.cloud>  
Youtube Demo: <https://youtu.be/WiiG1DLdcbw>

### Wiki ChatBot - 2024

- A RAG chat application that takes text input of Wikipedia Link and answers any question regarding the link provided.
- Saves user the time of manually search the specific detail on the page.
- Link: <https://wiki-chat-bot.vercel.app>

### Surveillance Defense System - 2023

- An IOT, project that monitors the surroundings of a specific length of area to detect intrusion and warns the intruder through visual LED and buzzer. And if not followed take action by firing paper gunshots.
- Created using: Arduino, Ultrasonic Sensors, Buzzer, Breadboard, LED, Motors
- *Virtual simulation:*
- [https://www.tinkercad.com/things/eQec3uziZSC-cool\\_albar?sharecode=cQi6FVqk0hB-A\\_bKW78y4RifKUbrLCwQWBG5awrqqiM](https://www.tinkercad.com/things/eQec3uziZSC-cool_albar?sharecode=cQi6FVqk0hB-A_bKW78y4RifKUbrLCwQWBG5awrqqiM)
- Virtual 3D Model:
- <https://www.tinkercad.com/things/6IQMUomIV4R-surveillance-defense-system-design>

### Advertisement Website - 2022

- A website to advertise your products or creativity with categories and give price tags, at the same time get likes and comments on your products.
- Key feature: Multiple ways to upload your Images.
- Designed using Nodejs, Express, EJS, Passport, MongoDB, Cloudinary
- Youtube Link: [https://www.youtube.com/watch?v=4xkZK2k\\_Rqk](https://www.youtube.com/watch?v=4xkZK2k_Rqk)

### Socialgram - 2022

- A social media app to post media
- Developed using Python, Django, Sqlite, Ejs
- Youtube Link: <https://www.youtube.com/watch?v=qE5hJN2Tudk>

### Color Game - 2021

- A game to enhance your understanding of color code.
- An HTML, CSS, and JavaScript single-page web application
- Live on Git Pages
- Link: [https://siddhesh-k.github.io/color\\_game](https://siddhesh-k.github.io/color_game)

### Pluto Virtual project -2021

- AI desktop-based virtual assistant, that can perform multiple tasks on your computer with voice or text commands. Integrated with Face recognition for accessing personal data. Provide real-time data from the internet. Connectivity with WhatsApp and email.
- A project, with the sole purpose of saving the user's data on his/her system instead of the cloud, maintaining security.
- Developed using: Python, Pandas, Scikit-Learn, Nltk, Open CV2, Tkinter, Sqlite, Pyautogui, tensorflow, etc.
- Vimeo Link: <https://vimeo.com/1028568096>

## Other experiences

### ● Receptionist

January 2026 Siddhakala Tours and travel Thane, MH, India

I worked independently as a substitute for 12 Days in a local tour and travel office, being responsible for the entire office. My key responsibility was to take customer requirements and interact with customers with travel, tour, bus, train & flight booking. Coordinate with railway agents for ticket bookings and keep follow-up with customers from booking to experience feedback calls.