

GANESH SONAWANE

Pune, Maharashtra

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EDUCATION

Government College Of Engineering And Research, Avasari Khurd

2023 – 2027

Computer Engineering (CGPA - 8.00)

Pune, Maharashtra

Government Polytechnic Pune

2021 – 2022

HSC (Percentage - 93.00%)

Pune, Maharashtra

PROJECTS

AI-Powered Facial Expression-Based Interview Tracking

Feb 2025-March 2025

Python, OpenCV, MediaPipe, Groq, Deepgram, Emotion Recognition APIs, Streamlit, GitHub

- Built an AI-driven facial expression recognition system to monitor participant engagement throughout the recruitment process.
- Leveraged computer vision and deep learning to detect emotional states in real-time using webcam input.
- Integrated Deepgram API for accurate voice-based emotion/context analysis, enhancing multimodal feedback.
- Used Groq architecture for ultra-fast inference and low-latency facial expression detection, enabling real-time responsiveness.
- Utilized OpenCV and MediaPipe Face Mesh for facial landmark detection. Integrated with a CNN-based model to classify emotions (happy, sad, angry, neutral, etc.) from facial expressions in live video streams.

Supply Chain Management

March 2025 - April 2025

Django, Python, Blockchain, PhiData, Agentic AI, HTML/CSS, SQLite, Google Gemini AI

- Developed a Django-based web platform connecting manufacturers and suppliers for real-time tracking of orders, supply status, and logistics workflows.
- Implemented modular dashboards providing key supply chain metrics and smart inventory insights to improve operational efficiency.
- Designed a Decentralized Payment System leveraging blockchain technology with secure dynamic payment links and QR code verification for transparent, trustless transactions.
- Incorporated Agentic AI components to enable intelligent decision-making and automation across supply chain processes.

AI-Driven Maternal Health Risk Assessment and Support Platform

May 2025 - June 2025

Django, Python, PhiData, Agentic AI, HTML/CSS, SQLite, Google Gemini AI

- Custom user profiles authentication for expecting mothers with health tracking.
- AI tools like ultrasound analysis, educational videos, and medicine insights.
- Nutrition tracker camera support for meal logging and ultrasound scans.

AI-Powered README Generator

June 2025

Python 3.7+, argparse, dotenv, google-generativeai, setuptools/wheel

- Smart Project Analysis – Scans local files to detect languages, dependencies, tests, and configs.
- AI-Driven READMEs – Uses Gemini AI (1.5/2.5) to generate rich, customizable docs with project insights.
- Safe Flexible – Auto-backups for old READMEs (unless –overwrite) and supports custom prompts.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, C

Specialization: Game Development- C, Unity, PyGame and AI-Machine Learning- Deep Learning, NLP, Libraries: Sk-learn, TensorFlow, Keras, PyTorch, OpenCV, NLTK, spaCy

Frameworks & Libraries: Django, Flask, FastAPI, Streamlit

Database: MongoDB, MySQL

DevOps & Cloud: Git, GitHub Actions (CI/CD), Render, Docker, AWS (EC2, S3, Lambda)

Tools & Platforms: VS Code, GitHub, Google Colab, Anaconda

Core CS Concepts: Data Structures and Algorithms (DSA), DBMS, OOP, Operating Systems, System Design (Basics)

ACHIEVEMENTS

- 2nd Place - Quasar 3.0 (National Level Hackathon) Organized by [Vasantdada Patil Pratishthan's College of Engineering and visual arts, Mumbai], [March 2025]
- Winner - HackToFuture 3.0 (National Level Hackathon) Hosted by [St Joseph Engineering College, Manglore], [April 2025]