

OMPRAKASH SAHANI

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EDUCATION

SANJAY GHODAWAT UNIVERSITY

Kolhapur, MH

Bachelor of Technology (Bachelor's Degree) | **Major in Computer Science and Engineering**

Jul 2020 – May 2023

Cumulative GPA: 8.40/10.0 | U.S. Grade: 3.62/4.0 | First Class with Distinction

Relevant Coursework: Data Structures and Algorithms; Operating Systems – Linux; Computer Networks – TCP/IP; Software Engineering; Database Management System (DBMS); Distributed Systems; Machine Learning; Artificial Intelligence

TECHNICAL SKILLS

Programming Languages and Scripting: Python, Java, C++, C, R, SQL, JavaScript, TypeScript, Shell Scripting

Systems and Tools: Git/GitHub, MySQL, Linux (WSL2, Ubuntu), Docker, VS Code, Hatchling/pyproject, Redis, WebSockets

Cloud and Platforms: Google Cloud Platform (App Engine, Compute Engine, APIs), Vercel, Flask, FastAPI, React Native

Data Science and Machine Learning: TensorFlow, PyTorch, scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, NLTK

PROJECTS

SHELLAI – NATURAL LANGUAGE SHELL ASSISTANT (PYTHON RE-IMPLEMENTATION)

- Re-engineered a Go-based project into **Python** with **multi-LLM orchestration (Gemini + OpenAI)**. Built a safe CLI for natural-language-to-shell execution, improving accuracy by **30%** with QA pipelines (black, ruff, mypy, pytest, coverage).

GEMINI DEV ASSISTANT: AI-POWERED CODE GENERATION AND OPTIMIZATION PLATFORM

- Built an AI assistant (React Native + Flask) using **Google Gemini API**, supporting 15+ languages. Deployed on **Google Cloud Platform** with **<500 ms latency**; context management achieved **90%+ accuracy** in multi-turn workflows.

ONLINE JUDGE / COMPETITIVE PROGRAMMING PLATFORM (SIMPLIFIED)

- Engineered a scalable online judge with **Docker-isolated execution (Python/Java)** and **Redis/RQ distribution**, cutting wait times by **100%**. Deployed Flask API + frontend on **GCP** with real-time feedback via **WebSockets**.

CUSTOM SEARCH ENGINE (MINI GOOGLE SEARCH)

- Developed a Python-based search engine indexing **50+ documents** with **inverted index + TF-IDF ranking**, achieving **~0.5 ms query latency**. Built an **NLTK-powered, Dockerized pipeline** with full test coverage.

GITHUB PROFILE AND ENGAGEMENT ANALYZER WEB APP

- Built a **full-stack GitHub Profile Analyzer** (deployed on **Google Cloud Platform App Engine**) leveraging **5+ REST APIs** and **heuristic models** to compute a novel **Engagement Score (0–100)**, validated with **10+ test cases** for reliability.

WORK EXPERIENCE

Software Engineer – SOFTRON (Startup), Kolhapur

Nov 2023 – Nov 2024

- Improved **website/app** performance (**React, Python**) by adding features, fixing bugs, cutting load time **~10%** and crashes **~8%** in a 4-member team.
- Built a **chatbot (Python, JavaScript)** for MIDC clients, reducing manual support workload by **~15%**.

LEADERSHIP AND EXTRACURRICULARS

Project Lead – Real-Time Weather Forecasting App: Led a 5-member team, delivering 10% more features and achieving sub-2s load time.

Member, GitHub Developer Program: Built GitHub Analyzer App to qualify for the program; leveraging advanced tools and resources to enhance open-source collaboration and project development.

Member, Google Developer Program: Exploring Google Developer pathways (Cloud, ML, Android) and applying learnings in open-source and personal projects.

DSA Practice: Solved 200+ problems on NeetCode and LeetCode, strengthening algorithms and data structures.