# Ganesh Patil

**Pimpri Chinchwad University Pune, Maharashtra India 411001**

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## Education

**Pimpri Chinchwad University, Pune** **Expected August 2028**

Bachelor of Technology in Computer science & Engineering (CGPA 7.03)

**Acharya PU College Of Science, Kalburgi** **2022-2024**

Higher Secondary Education (HSE)

## Experience:

**Open-Source Contributor (Community Projects) | GitHub:** https://github.com/GaneshPatil7517 **2024 – Present**

**Merged Repo Link: https://docs.google.com/document/d/1VHHT7otLvMU2pJt_32_ibZprbopVPU5I-WyBLSGw6zE/edit?usp=sharing**

- Resolved **multiple issues** across open-source repositories, including bugs, content inconsistencies, & workflow-related improvements.
- Authored and enhanced **technical documentation**, ensuring clarity, accuracy, and adherence to project contribution standards.
- Actively followed open-source contribution workflows using **Git and GitHub**, including forking repositories, creating feature branches, submitting pull requests, and incorporating review feedback.
- Collaborated with maintainers and contributors to understand issue requirements, propose solutions, and deliver fixes efficiently.

## Projects:

**1.Assistant-UI TypeScript/React library for building production-grade AI chat interfaces** **link: live**

**Tech Stack:** React, Node.js, Radix UI, Tailwind CSS, Zustand, Zod, Vercel AI SDK, Lang Graph, Turborepo, pnpm, Vitest

- Developed composable React primitives for real-time streaming chat UX with auto-scrolling, accessibility, and Markdown/code highlighting support.
- Integrated major AI providers (OpenAI, Anthropic, Google Gemini, AWS Bedrock, Azure) with backend frameworks including Vercel AI SDK, Lang Graph, and Mastra.
- Built enterprise chat features with persistence, analytics, voice, files, and human-in-the-loop approvals.

**2.Smart TimeTable (AI-Based Scheduling System)**

- Built a full-stack timetable generator using React and FastAPI
- Developed a genetic algorithm to create conflict-free class schedules.
- Added validation, version history, and export features for better usability.

**3. Open-Source Organization Recommender (GSoC-Inspired Platform) Demo: Live**

**Tech Stack:** React, Node.js, Express, MongoDB, REST APIs, JWT, GitHub.

- Built a MERN-based platform for discovering and ranking open-source organizations using skill-based search.
- Created data-driven dashboards with MongoDB aggregations to visualize trends, growth, and technology usage.
- Implemented secure REST APIs with JWT authentication, admin workflows, and a scalable recommendation system.

**4. DSA Playground – Algorithm Visualization Platform Link: https://ganeshpatil7517.github.io/Dsa-playgroud/**

**Tech Stack:** React, Vite, Tailwind CSS, Framer Motion, React Router

- Built an interactive web platform that visualizes sorting algorithms and core data structures through step-by-step animations.
- Implemented Bubble, Selection, Insertion, Merge, and Quick Sort with real-time time and space complexity analysis.
- Designed a responsive and smooth user interface using **Tailwind CSS and Framer Motion**, with modular navigation via **React Router**

## Technical Skills:

**Languages:** C++, Python, JavaScript, HTML and CSS
**Framework:** React, Express.js, Node.js
**AI/ML Libraries:** Scikit-learn, TensorFlow, PyTorch, NumPy, Pandas, Matplotlib, OpenCV, MediaPipe
**Tools:** GIT, MySQL, Mongo shell, GitHub Actions (CICD), Google Collab, VS code, jupyter notebook, Basic Docker & Kubernetes.
**Tech Stack:** MERN Stack Web Development, Artificial Intelligence (AI), Basic Devops.

## Achievements:

**Techeon Hackathon:** University's Hackathon and secured Runner-Up position. Link: Post Link
**PCU's SIIH:** University's Smart India Internal Hackathon and secured Runner-Up position Link: Post Link
**GDG PUNE:** Selected For Google Developers Group Representative Student Link: Post Link