TANUSHKA PATIL

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Education

Pimpri Chinchwad College of Engineering, Pune **August 2023 – May 2027**
Bachelor of Technology in Computer Science *CGPA: 8.2 / 10*

Technical Skills

Languages: C++, Python, C
AI & ML: Machine Learning, NLP, PyTorch, OpenCV, Retrieval-Augmented Generation (RAG), Generative AI
Backend & DB: FastAPI, RestAPI, PostgreSQL, MongoDB, MySQL, Firebase, Vector DB
Tools & Dev: Flutter, HTML, CSS, JavaScript, GitHub, Unity, Blender

Experience

AI Intern, SAP Core Competency Head **June 2026 – Present**
Bristlecone (Mahindra) *Pune, India*

- **BBVMS:** Contributed to a 30+ app AI-powered ITSM platform for SAP support teams, building Cone Consultant and a RAG-grounded LLM pipeline (FastAPI, vector DB) across 6 live apps including Triager and Resolver
- **Cone Transition:** Contributing to a multi-tenant AMS vendor-transition platform (React/TS, FastAPI, PostgreSQL) with a 7-phase governed lifecycle, 5-level RBAC, and a Claude API-backed AI assistant, driving 88 of 149 backlog items to completion

Flutter Developer Intern **December 2025 – February 2026**
Inhouse under Computer Engineering Department *PCCoE, Pune*

- Engineered a QR-based attendance system with Firebase for 200+ users — real-time sync, ticket-based attendance, and SMTP email verification across 3 user roles

AI-ML/Flutter Developer Intern **May 2025 – August 2025**
Inhouse under Dean International Relations *PCCoE, Pune*

- Developed a Flutter app with admin dashboard (4 modules), Firebase auth, QR attendance, and an AI-powered chatbot; deployed to Play Store and App Store

Projects

Grasp – RAG-based AI Study Assistant || *Python, FastAPI, React, ChromaDB, Groq* **May 2026**

- Built a RAG pipeline with sliding-window chunking and top-3 retrieval via ChromaDB, scoped per chat session
- Vectorized chunks using all-MiniLM-L6-v2 embeddings with isolated retrieval across sessions
- Integrated Groq LLM with multi-turn memory and context-grounded prompting to cut hallucination

Nexus – Autonomous AIOps System || *Python, Flask, Groq, scikit-learn* **April 2026**

- Architected a 4-agent AIOps pipeline (Detect, RCA, Heal, Report) monitoring 3 microservices with fault injection
- Trained an Isolation Forest on system metrics, paired with rule-based thresholds for dual-layer detection
- Integrated Groq LLaMA 3.3-70B for RCA with structured prompting and fallback logic; actions logged to JSON store

Flutter Face Recognition App || *Flutter, TensorFlow Lite, FaceNet, ML Kit* **November 2025**

- Developed a cross-platform face recognition app with real-time detection using on-device ML
- Integrated FaceNet with TensorFlow Lite for embedding extraction and similarity-based authentication
- Designed registration and recognition pipelines for secure login and attendance use cases

Achievements

- **Research Publication (ICSFT 2026):** Co-authored peer-reviewed research on multi-task medical imaging frameworks, combining deep supervision and bi-directional feature transfer.
- **ACM AR/VR Summer School:** Selected nationally for advanced spatial computing tracks; secured the **Best Project Award** for innovative system designs.
- **Chapter Leadership (ACM & GDG):** Served as Management Head at ACM and AR/VR Lead at Google Developer Group; directed a 90-member executive team, organized 50+ events for 5,000+ students.
- **Competitive Coding Profiles:** Solved 250+ algorithmic data structures problems; attained a 3-Star standing on CodeChef and a 5-Star distinction across HackerRank paradigms.

Certifications

CS50 Python (Harvard) **ML & Data Analytics (FreeCodeCamp)** **Cloud & AWS (Udemy)**

Coding Profiles

HackerRank **CodeChef** **LeetCode**