Tanishq Shinde

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SUMMARY

Computer Engineering student focused on building **scalable** and **reliable software systems**. Hands-on experience in **backend development**, **microservices architecture**, **SDLC**, and applying **AI/ML solutions**. Delivered projects with **modular microservices** and **efficient backend frameworks**, producing **maintainable**, **efficient**, **scalable systems**.

EDUCATION

Pune Institute of Computer Technology *Pune, India*
Bachelor of Engineering in Computer Engineering CGPA: **9.08 / 10.0** *Expected May 2026*

EXPERIENCE

Intern *Pune, India*
lotiot.in *Dec 2023 – Mar 2024*
- Designed a multi-phase **Brand Knowledge Graph** using **JSON, SQLite, Neo4j**, improving **query accuracy** by **85%**.
- Built a **Python microservice** integrating **Gemini API** to convert natural language to SQL, reducing query time by **90%**.
- Fine-tuned **TinyLLaMA LLM Model** using **LoRA adapters**, boosting inference speed by **40%**.
- **Tech Stack:** Python, JSON, SQLite, Neo4j, Gemini API, TinyLLaMA, Reinforcement Learning Tools (Unsloth, GRPOTrainer, LoRA)

AI Research Intern *Pune, India*
Pune Institute of Computer Technology *Jan 2024 – May 2024*
- Developed a hybrid model for **NLP** coreference resolution in Marathi using hypergraphs.
- Implemented TF-IDF feature engineering, improving performance by **15%**.
- Applied **spectral clustering** and **POS tagging** using the **Stanza** library to enhance semantic grouping and linguistic analysis.

PROJECTS

Personalized Skincare Recommendation System *Academic Deep Learning Project*

- Built end-to-end **skin condition prediction** pipeline with **EfficientNetV2B0**, achieving **95.6% test accuracy**.
- Integrated **AI-powered recommendations** via **Gemini API**, generating personalized home remedies and a 7-day plan.
- Implemented **real-time dermatologist search** using **Selenium**.
- Deployed a **Streamlit UI** ensuring seamless interaction.
- *Tech Stack: Python, TensorFlow/Keras, Streamlit, Gemini API, Selenium, Hugging Face.*

Wedding Planner System *Independent Full Stack Project*

- Developed **FastAPI backend** with **REST APIs**, reducing planning processing time by **40%**.
- Designed **MongoDB/PostgreSQL schemas** optimized for budget queries (**sub-200ms response time**).
- Built interactive **React.js frontend** with **Clerk Auth**, enabling real-time task tracking.
- Implemented **real-time vendor scraping** using **Selenium WebDriver**.
- **Tech Stack:** React.js, FastAPI, MongoDB, PostgreSQL, REST APIs, Clerk Auth, Selenium WebDriver

TECHNICAL SKILLS

Languages	Python, C++, JavaScript, SQL
Backend	Express.js, FastAPI
Databases / Caching	PostgreSQL, MongoDB, MySQL, Redis
Development Tools	VS Code, PyCharm, Docker, Git, GitHub, AWS
AI/ML	TensorFlow, PyTorch, Scikit-learn, Pandas, NumPy, NLP, Model Fine-Tuning

ACHIEVEMENTS

- **Competitive Programming:** LeetCode Rating **1868** (Top 5%, 900+ solved); Ranked **776**/28k in Contest 455.
- **Open Source:** Contributor to Social Summer of Code (SSoC) and GirlScript Summer of Code (GSSoC).
- **Competitions:** Runner-Up in Clash Credence; Top 50 in MotoGP Kaggle Hackathon.

CERTIFICATIONS

Machine Learning Specialization (Coursera) · Salesforce Certified AI Associate (Salesforce)