# Tanishq Shinde

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## 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*
*Iotiot.in* *Dec 2024 – Mar 2025*
- Developed a **Nike Brand Knowledge Graph** using **JSON, SQLite, and Neo4j**, enabling **LLM-powered queries** and interactive visualizations.
- Built automation tools and bots using **Python, NLP, and browser automation**, including a YouTube video downloader with region-aware filtering, an e-commerce scraper for price monitoring, and a Reddit comments scraper for data collection and analysis.
- Fine-tuned reasoning models (**Meta-LLaMA-3.1**, **LoRA**, **GRPO**) on the GSM8K dataset to improve **mathematical and logical reasoning**, optimizing for speed and memory efficiency.
- ***Tech Stack:*** *Python, JSON, SQLite, Neo4j, LoRA, GRPO, Selenium Webdriver, Gemini API*

**AI Research Intern** *Pune, India*
*Pune Institute of Computer Technology* *April 2025 – May 2025*
- Implemented **coreference resolution** for Marathi using a **hypergraph method** based on **spectral clustering**.
- Performed feature engineering and data preprocessing using **TF-IDF**, improving model accuracy by **15%**.
- ***Tech Stack:*** *Python, Stanza, NumPy, Pandas, Scikit-learn, NetworkX, Matplotlib*

## PROJECTS

**Wedding Planner AI System** *Independent Full Stack Project*
- Developed a **FastAPI backend** supporting **REST APIs** that reduced planning task processing time by **40%**.
- Designed **MongoDB and PostgreSQL schemas** optimized for complex budget queries, achieving **sub-200ms response time** for key operations.
- Built an interactive **React.js frontend** with secure **Clerk Auth** authentication, enabling real-time budget tracking and task management, improving usability scores in user testing.
- Implemented **real-time web scraping** using **Selenium WebDriver** to fetch updated vendor information, ensuring accurate recommendations.
- ***Tech Stack:*** *React.js, FastAPI, MongoDB, PostgreSQL, REST APIs, Clerk Auth, Selenium WebDriver*

**Personalized Skincare Recommendation System** *Academic Deep Learning Project*
- Developed an end-to-end **skin condition prediction pipeline** by fine-tuning an **EfficientNetV2B0** model, achieving **95.6% test accuracy**.
- Integrated **AI-powered recommendations** via the **Gemini API**, generating personalized home remedies and a 7-day skincare plan based on predictions.
- Implemented **real-time dermatologist search** using **Selenium** to scrape top-rated specialists for professional consultation.
- Deployed a user-friendly **Streamlit UI**, ensuring seamless interaction and responsive performance.
- ***Tech Stack:*** *Python, TensorFlow/Keras, Streamlit, Gemini API, Selenium WebDriver, Hugging Face.*

## TECHNICAL SKILLS

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

## ACHIEVEMENTS

- **Competitive Programming:** LeetCode Rating **1868** (Top 5%, 900+ solved);
- Achieved rank 776 out of 28,000 participants (Top 3%) in LeetCode 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)