

Tanishq Shinde

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Experience

- **Intern at Iotiot.in** 23rd Dec 2024 – 31st Mar 2025
 - Developed a **multi-phase Brand Knowledge Graph System** using JSON, SQLite, Neo4j, and D3.js; achieved 85% accuracy via Cypher.
 - Integrated **Gemini API** for natural language to SQL conversion and structured result export.
 - Built an **LLM-based Reasoning Model** using GRPO with LoRA adapters on unsloth/tinyllama-bnb-4bit; fine-tuned on Colab (T4 GPU, 4-bit quant).
 - Employed HuggingFace, Unsloth, and RL to implement a GRPOTrainer pipeline for reward-based response generation.
- **AI Research Intern, InHouse** Mar 2025 – Apr 2025
 - Researched and implemented coreference resolution for regional languages (Marathi, Hindi).
 - Developed a hypergraph-based approach to represent complex linguistic relationships.
 - Applied spectral clustering to improve accuracy of entity linking and resolution.
 - Leveraged NLP and deep learning tools (Transformers, stanza, NLTK) for data preprocessing and analysis.

Projects

- **Personalized Skincare Recommendation System**
 - Developed a DL-powered recommendation system using ResNet-50 with 94% accuracy across 6 skin conditions.
 - Analyzed 2,394+ images to build a high-quality dataset ensuring reliable predictions.
 - Built using **Pandas, NumPy, matplotlib, torchvision, TensorFlow, Streamlit**.
- **Wedding Planner AI Backend System**
 - Automated 5+ wedding tasks—guest invites, vendor search, travel planning—reducing manual effort by 85% with modular Python bots.
 - Automated guest invitations via WhatsApp (Twilio API) with real-time tracking and smart follow-ups.
 - Scraped and ranked 20+ venues, 15+ photographers, and 30+ train options using Selenium; produced budget-optimized JSON outputs.
 - Tech used: **Python, MongoDB, Streamlit, Twilio API, Email Automation, JSON, Pandas**.

Skills

C++, Python, HTML, CSS, Javascript, Object-Oriented Programming, Data Structures and Algorithms, Automation Scripting, SQL

Tools and Frameworks

Git, Postman, Selenium, BeautifulSoup, Streamlit, VS Code, Docker, Scikit-learn, FastAPI

Achievements

Contributor – Social Summer of Code (SSoC) Project Link May–July 2025

Leetcode: Rating of 1819 Link

Achieved Rank **776** out of **28,244** participants in LeetCode Weekly Contest 455 **Link**

Runner-Up in Clash Credence Event organized by PICT IEEE Student Branch Link

Certifications

- **Machine Learning Specialization** by Andrew Ng **Link**
- **Salesforce Certified AI Associate Link**