Tirth Shah

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LinkedIn | GitHub

Professional Summary

Results-driven Computer Science Engineering student with robust experience in Python, Machine Learning, and Web Development. Skilled in building scalable, impactful AI solutions using Django, FastAPI, and cloud-based architectures. Proven ability to deliver high-value projects integrating advanced technologies like Transformers, RAG, and OpenAI. Adept at driving automation and optimizing workflows through innovative solutions.

Education

- B.Tech, Computer Science — L.J. Institute of Engineering & Technology (2022–Present), CGPA: 8.75
- HSC — Nirman High School (2021–2022), 72 percentile
- SSC — Nirman High School (2019–2020), 91 percentile

Work Experience

Python & AI/ML Developer — NicheTech Computer Solutions
Dec 2024 – Present

- Spearheaded integration of OpenAI APIs to automate content summarization on Matrubharti, increasing content discovery by 30%.
- Engineered chatbot systems and interactive dashboards for Roastea, enhancing customer engagement by 40%.
- Architected and launched Trip Teller, a Django-based travel platform handling 5,000+ queries/month with RAG-based chat.
- Automated PDF data ingestion to DynamoDB via AWS Lambda, reducing processing time from hours to under 5 minutes.

- Developed BSG, a Golang event management platform supporting 300+ user registrations securely.

AI Intern — Tally Prime Jun
2024 – Aug 2024

- Automated generation of 500+ training invoices with advanced Excel scripting, expediting data prep by 60%.

- Built modular Python tools to auto-populate invoice templates, cutting manual data entry by 90%.

Technical Skills

- Languages & Frameworks: Python, Golang, Django, FastAPI, Flask, HTML, CSS, JavaScript

- Tools & Platforms: AWS, Git, VS Code, HeidiSQL, MongoDB, PostgreSQL

- Domains: Machine Learning, Deep Learning, IoT, Generative AI, OpenAI APIs

Projects

- TechGroove: Led a full-stack MERN e-commerce app supporting 200+ concurrent users.

- E-Med: Python-based medicine ordering system facilitating 1,000+ monthly transactions.

- Health Monitoring System: IoT vitals tracker reducing hospital overhead by 25%.

- Smart Agriculture: ML-powered crop monitoring improving yield forecasts by 20%.

- Digi Bank: Secure banking platform with 99.9% transaction accuracy.

Certifications

- HTML, CSS, and JavaScript for Web Developers

- Exploratory Data Analysis for Machine Learning

- Introduction to AI, Generative AI, LLMs & Responsible AI

- AWS Cloud Technical Essentials

Languages

English, Hindi, Gujarati — Professional Fluency

Interests

Artificial Intelligence, Stock Market, Cricket