Tirth Shah

Python & AI/ML Developer

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🔗 Portfolio Website
in LinkedIn Profile
○ GitHub Profile

Professional Summary

A highly motivated and results-oriented developer with a strong foundation in Python, Artificial Intelligence, and Machine Learning. Experienced in building and deploying scalable, AI-driven applications and robust web solutions. Proven ability to architect and launch complex platforms, automate processes, and leverage cloud technologies like AWS to deliver efficient and innovative software. Seeking to apply my expertise in a challenging role that pushes the boundaries of technology.

Professional Experience

AI Developer

NicheTech Computer Solutions | Ahmedabad, Gujarat

- Engineered multiple AI-powered solutions, including RAG-based chatbots and content summarization tools using OpenAI, Groq, and Langchain, increasing user engagement by up to 40%.

- Architected and launched several full-stack platforms like "Trip Teller" (Django) and "KeywordsClub" (FastAPI), handling 5,000+ monthly user queries and streamlining business operations.

- Implemented robust AWS automation leveraging Lambda to process PDF data into DynamoDB, reducing data processing time from hours to under 5 minutes.

Skills

Languages & Frameworks

Python   Golang   Django   FastAPI

JavaScript   React   Node.js

Databases & Tools

PostgreSQL   MongoDB   Git

Docker   n8n

Platforms & Domains

AWS   Generative AI

Machine Learning   OpenAI API   Groq

IoT

Education

B.Tech in Computer Science

L.J. Institute of Engineering & Technology
CGPA: 8.75 / 10.0

Python Automation Intern

Tally Prime │ Ahmedabad, Gujarat

- Automated the 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 Projects

TechGroove - MERN E-commerce

Full-stack e-commerce platform with user authentication and complete shopping cart functionality.

Real-time Fraud Detection

ML pipeline using an XGBoost model to detect fraudulent transactions with high accuracy.

Smart Agriculture System

Predictive model using Random Forest to recommend optimal crops based on soil and environmental data.

E-Med CLI Pharmacy

Python CLI for managing medicine orders, inventory, and customer requests in a simulated pharmacy.

Digi Bank - Full-Stack Banking

Secure Django & React application for account management, transactions, and user authentication.

Serverless Face Recognition

Scalable AWS-based system using Lambda, S3, and Rekognition for efficient image identification.

IoT Health Monitor

Arduino-based IoT device for tracking and visualizing vital health signs on a cloud dashboard.

Certifications

- Generative AI Fundamentals - IBM
- AWS Certified Cloud Practitioner - AWS
- Machine Learning Specialization - Google
- Python for Data Science, AI & Development - IBM
- Databases and SQL for Data Science with Python - IBM
- Building Generative AI-Powered Applications with Python - IBM
- AWS Cloud Technical Essential - Coursera
- Introduction to Artificial Intelligence - LinkedIn
- Introduction to Generative AI - Google
- Introduction to Large Language Models - Google
- Exploratory Data Analysis for Machine Learning - Coursera
- Inheritance and Data Structures in Java - Coursera
- Introduction to Java - Coursera
- HTML, CSS, and Javascript for Web Developers - Coursera
- Introduction to Responsible AI - Google
- Prompt Design in Vertex AI - Google
- Responsible AI: Applying AI Principles with Google Cloud - Google