SHUBH PATEL

Machine Learning Engineer

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PROFESSIONAL SUMMARY

Aspiring Machine Learning Engineer with practical experience in backend development and applied ML techniques, skilled in designing scalable systems and intelligent solutions.

Passionate about leveraging technology to solve real-world challenges and building systems that are reliable and easy to maintain.

EDUCATION

B.Tech in Computer Engineering
Charotar University of Science and Technology (CHARUSAT)
2027
(Expected Graduation: 2027). (CPI - 8.37)

Diploma in Computer Engineering
Government Polytechnic Gandhinagar
2024
Completed: 2024. (CGPA-8.48)

TECHNICAL SKILLS

Area(s) of Interest
AI/ML, Back-End Development

Programming Languages
Python, Java, JavaScript

Data Science & ML
Data Analysis, NumPy, Pandas, Matplotlib, Feature Engineering, Streamlit, Scikit learn, Natural Language Processing

Tools & Technologies
Vs Code, Django, Flask, Node.js, RESTful APIs, MongoDB, Git & GitHub, Docker

Soft Skills
Problem Solving, Teamwork, Critical Thinking

KEY ACHIEVEMENT

Top 10 Finalist | National Hackathon at Adani University (36-Hour)
- **Selected among the top 30 teams out of 180 and finished in the top 10** for building an AI-powered Mental Awareness Companion.
- Developed a system that understands users' emotional states using AI and offers real-time personalized support.

PROFESSIONAL EXPERIENCE

AI / ML Intern | SementicSEO
08/2025 – Present
- Contributed to the development and optimization of **machine learning models**, applying **Natural Language Processing (NLP)** techniques to automate data-driven workflows.
- Built and maintained **scalable data pipelines** to support efficient model training, evaluation, and deployment in production environments.

Machine Learning Intern | PranshTech Solutions
05/2025 – 06/2025
- A key contribution was building an advanced **Retrieval-Augmented Generation (RAG)** system that combined local LLMs with vector-based semantic search using ChromaDB.
- This experience sharpened my skills in real-world ML deployment, document AI, and LLM integration.

PROJECTS

Charusat NSS Website | Backend Developer (Node.js)
- Designed and implemented the complete **backend architecture** for a university-wide National Service Scheme portal using **Node.js**.
- Developed a **well-structured database schema** to efficiently manage event registrations, volunteer data, and activity records.

Companion AI - Appliance Maintenance Assistant
- An intelligent AI chatbot specialised for appliance troubleshooting, maintenance guidance, and repair assistance. Built with NVIDIA NIM/local models for privacy and performance.
- **Skills: LangChain · Streamlit · Large Language Models (LLM)**

RAG-SYSTEM
- Advanced Retrieval-Augmented Generation system with semantic search, document processing, and local LLM integration.
- **Skills: Application Programming Interfaces (API) · Retrieval-Augmented Generation (RAG) · Artificial Intelligence (AI)**

CERTIFICATIONS

- Data Structures and Algorithms using Java - NPTEL
- Intermediate Machine Learning - Kaggle Learn
- Introduction to Machine Learning - Kaggle Learn