

# SATYAM GURJAR

AI ENGINEER

## Contact

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## Education

**Technocrats Institute of Technology, Bhopal**

2022 – 2026

B.Tech AI/ML

CGPA: 7.9

**Excellence H.S. School, MP Board**

2020

Class XII

72%

**Govt. High School, MP Board**

2018

Class X

85%

## Skills

**Languages:** Python, SQL

**Machine Learning:** Regression, Classification, KNN, SVM, Random Forest, XGBoost

**Deep Learning:** Neural Networks, LSTM, Transformer, GNN

**NLP & Generative AI:** LangChain, RAG, FAISS, Vector Embeddings

**Libraries:** NumPy, Pandas, Scikit-learn, PyTorch

**Tools:** Jupyter Notebook, Git, GitHub

## Achievements

- Completed Advent of Cyber 2025 and strengthened practical cybersecurity awareness.
- Worked on AI/ML for Geodata Analysis, applying data-driven techniques to spatial and geographic datasets.

## Experience

**Intern at SemsterTech | 4 Months**

- Developed and deployed AI agents for process automation and intelligent task execution.
- Built automation workflows to streamline business operations and improve efficiency.
- Collaborated with cross-functional teams to identify automation opportunities and implement solutions.
- Gained hands-on experience in AI/ML model deployment and real-world application development.

## Projects

**AI Personal Assistant with Voice Recognition & Control** | Python, LangChain, Speech-to-Text, Text-to-Speech, Voice Authentication, System Control APIs

- Developed an intelligent personal assistant that detects and processes voice commands with speaker identification for personalized user experiences.
- Implemented voice-based authentication system allowing users to login and access personalized features through voice recognition.
- Integrated Speech-to-Text (STT) and Text-to-Speech (TTS) capabilities for seamless hands-free voice interaction and natural communication.
- Enabled system control features including task automation, scheduling, reminders, and device control through voice commands with multi-user support.

**Movie Recommendation System** | Python, Pandas, Scikit-learn

- Built a content-based movie recommendation engine using metadata similarity techniques.
- Processed and cleaned movie datasets for feature extraction and similarity matching.
- Implemented cosine similarity to generate personalized recommendations.
- Improved recommendation relevance through preprocessing and feature engineering.

**Inter Particle Force Predictions using GNN**

- Developed a graph neural network model to predict inter-particle forces from structured relationships.
- Modeled particles as graph nodes to capture spatial and interaction dependencies.
- Applied deep learning techniques to learn complex force patterns from graph data.

**English-Hindi Neural Machine Translation** | Transformer from Scratch

- Implemented a transformer-based neural machine translation model from scratch.
- Designed the full training pipeline for English-to-Hindi translation tasks.
- Applied attention mechanisms to improve sequence-to-sequence translation quality.
- Evaluated model performance and refined architecture for better translation output.