

Shivam Goel

+91 7042559885 | shivamgoyal1217@gmail.com | linkedin.com/in/shivam-goel-73a188362 | Delhi, India

EDUCATION

Delhi Technological University (DTU)
Bachelor of Technology, Mechanical Engineering

New Delhi, India
2025 – 2029

EXPERIENCE

Autoload AI Systems Private Limited

2026

SDET Intern

- Gained hands-on experience in software development, testing, automation, and performance scripting with a focus on reliable and scalable software
- Worked with development and testing workflows to improve software quality, reliability, and performance

Veracy Consulting

2026

AI/ML Intern

- Worked on Python programming, data preprocessing, exploratory data analysis, and supervised and unsupervised learning
- Developed and evaluated machine learning models for practical AI/ML applications

PROJECTS

HearUsOut – Real-World Speech Separation | *Python, PyTorch, SR-CorrNet, DeepFilterNet, ECAPA-TDNN* | [GitHub](#) 2025

- Built a robust speech separation pipeline using fine-tuned SR-CorrNet, achieving 19+ dB SI-SDRi on noisy real-world audio
- Designed adaptive preprocessing and VAD-based routing to handle clipping, silence, loudness variations, and overlapping speakers
- Implemented zero-shot target speaker extraction with ECAPA-TDNN and DeepFilterNet-based artifact refinement

Andrew Ng Digital Twin | *Python, LangChain, FAISS, Gemini, Groq, Streamlit* | [GitHub](#)

2025

- Built a RAG-powered conversational AI using LangChain and FAISS over Andrew Ng lecture notes
- Implemented Gemini/Groq LLM fallback, short-term and persistent memory, and automated source citations
- Integrated offline voice I/O and a Streamlit-based interactive interface

Agentic AI Research System | *Python, LLMs, FAISS, Groq, Ollama, RAG* | [GitHub](#)

2025

- Built a multi-agent research system for autonomous planning, retrieval, generation, and verification of arXiv research
- Implemented FAISS retrieval with bge-small-en-v1.5 embeddings and Groq/Ollama-based agents
- Added iterative self-reflection and tool-calling for automated research synthesis

Stock Market Web Application | *Python, LSTM, ML, Web Dev* | [GitHub](#)

2024

- Collaborated in a team of 4 to build a full-stack stock market prediction web application
- Implemented LSTM-based price prediction, real-time news integration, and an AI-powered chatbot

TECHNICAL SKILLS

Languages: Python, C, JavaScript

ML/DL Libraries: PyTorch, TensorFlow, Scikit-learn, XGBoost, CatBoost, pandas, NumPy, OpenCV, Matplotlib, Mediapipe, Torchvision

AI & LLM: LangChain, FAISS, RAG (Retrieval-Augmented Generation), Agentic AI, Multi-Agent Systems, Groq, Gemini API

Hardware & Tools: ESP32, Fusion 360, Arduino (Basics of Electronics)

Developer Tools: VS Code, Git, Streamlit

CERTIFICATIONS

Machine Learning – Coursera / DeepLearning.AI

Deep Learning Specialization – Coursera / DeepLearning.AI

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization – Coursera / DeepLearning.AI

Structuring Machine Learning Projects – Coursera / DeepLearning.AI

Sequence Models – Coursera / DeepLearning.AI

Machine Learning in Production – Coursera / DeepLearning.AI