

SHYAM THAKKAR

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EDUCATION

G H Patel College of Engineering and Technology (GCET)

Bachelor's degree in Computer Engineering | CGPA: 8.73

Anand, India

2021-2025

Technical Skills

Languages: Python | JavaScript | C++ | C | Java

Frameworks & Libraries: Django | LangChain | LangGraph | TensorFlow | Keras | PyTorch | OpenCV | Streamlit | Selenium | Playwright

Tools: Git | Vector Databases | SQL | RAG Systems | Prompt Engineering | LLM Evaluation | OCR | Data Cleaning, Preprocessing, and Visualization | RESTApi

Experience

WeServeCodes Pvt Ltd. – SDE -1 (GenAI Developer)

June 2025 – Present

- Engineered AI-driven automation systems by integrating LLMs with complex business logic, enabling natural-language instructions to trigger reliable, validated actions across internal platforms.
- Built robust data-extraction and validation pipelines that combined web automation, structured LLM output, and real-time API checks to ensure accuracy, consistency, and trust in generated data.
- Designed and implemented custom tool-call frameworks allowing LLMs to safely interact with external APIs, verify user-provided inputs, and request missing or corrected information when required.
- Developed dynamic content-generation workflows powered by rule-based logic and LLM capabilities, improving data quality, operational efficiency, and automation across business processes.

CrossShores Infotech. – AI/ML Intern

Dec 2024 – June 2025

- Developed an in-house API for background removal, designed for cleaning logos and product images using BiRefNet and open-source Rembg, eliminating the need for third-party services and reducing client costs by 7%.
- Designed and implemented a Candidate Filtering **RAG** System using LLM-based prompt engineering, hybrid retrievers, and CrossEncoder rerankers, enabling accurate matching of resumes to job descriptions through an ensemble of SelfQueryRetriever, ideal JD generation (LLaMA 3), and key detail extraction (DeepSeek R1).
- Built a modular pipeline incorporating question generation, JSON-based metadata filtering, and vector store retrieval (Weaviate) to optimize relevance scoring and document reranking.

Tech Elecon Pvt. Ltd. – Data Analyst Intern

May 2024 - June 2024

- Developed an invoice reader project using optical character recognition (OCR) technology to accurately read and display the contents of invoices.
- Lead a team of interns on various projects, providing guidance and support to ensure successful project completion.

PROJECTS

Karate Kata Evaluation System [View](#)

Tools: Python, Keras, OpenCV, TensorFlow, Streamlit

- Designed and developed a Karate Kata Evaluation System using Google MoveNet and a custom deep neural network for real-time pose detection and analysis.
- Integrated TensorFlow, OpenCV, Scikit-Learn, and Keras for posture assessment and movement analysis.
- Built and hosted a user-friendly Streamlit interface for real-time feedback and performance evaluation, ensuring accuracy through rigorous testing and optimization

Stock Price Prediction System

Tools: Python, Streamlit, Pandas, NumPy, TensorFlow, Keras

- Developed a real-time stock price prediction web application using Streamlit and LSTM models for accurate 7-day forecasts, integrating real-time data sources.
- Implemented data preprocessing and visualization with Pandas and NumPy to enhance user experience.
- Built and trained an LSTM model using TensorFlow and Keras, employing a sliding window algorithm for improved accuracy.