SHYAM THAKKAR

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EDUCATION

G H Patel College of Engineering and Technology (GCET) Anand, Gujarat, India
Bachelor's degree in Computer Engineering | CGPA: 8.73 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

AIFolio – AI-Powered Portfolio Generator (Founder / Developer) View **DEC 2025 – Present**

- Built and launched an AI-driven platform that transforms resumes (PDF/DOCX) into structured, editable portfolio data.
- Implemented LLM-based resume parsing with schema-driven validation to ensure accurate and consistent data extraction.
- Designed an asynchronous processing pipeline using Celery for background extraction, validation, and database persistence.
- Developed a live split-view editor enabling real-time preview and instant updates to portfolio content.
- Implemented live portfolio publishing, enabling users to make their portfolio accessible via a unique, user-specific URL.
- Architected a secure, multi-user system ensuring user-specific data isolation and controlled updates.
- Shipped a production-ready web application with a focus on usability, scalability, and clean UX.

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.