Kavish Shah

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EDUCATION

B.Tech. (Artificial Intelligence & Data Science) - TY
SVKM's Dwarkadas J. Sanghvi College of Engineering | Mumbai, MH — *2024*
Latest Sem-3 : SGPA - 8.76

Higher Secondary Certificate
Nirmala College of commerce and science | Mumbai, MH — *2023*

Secondary School Certificate
St. Johns Universal School | Mumbai, MH — *2021*

Experience

Research Engineering Intern(LLM) at SimPPL|LLM, Development, ML, NLP — *April 2024 - Present*
Currently developing a social media analyser platform and deploying via AWS

Research Mentor in DJS INFOMATRIX — *August 2025 - Present*
DJ Sanghvi College of engineering| Mumbai, MH

Web Developer at NSDC & Nova committee — *August 2024 - 2025*
DJ Sanghvi College of engineering| Mumbai, MH

Publicity Co-committee member in S4DS — *August 2024 - 2025*
DJ Sanghvi College of engineering| Mumbai, MH

PROJECTS

SignSpeak: AI-Powered Sign Language Translator Agent - Computer Vision|AI Agents|TensorFlow|Next.js
Developed an AI agent-based translator that converts sign language gestures into text and speech in real time.
Implemented gesture recognition using MediaPipe + CNN/LSTM models trained on public sign language datasets.
Designed a multi-agent pipeline:
Vision Agent → detects hand/keypoint movements.
Translation Agent → maps gestures to words/sentences.
Speech Agent → converts translated text into natural voice.
Built a Next.js interface where users can communicate with non-signers via webcam input and real-time AI translation.
Integrated reverse mode → users can speak/type text and the system generates 3D animated sign language avatars for the deaf/hard-of-hearing community

LLM Context Preserver - Browser Extension | Google Docs API | JavaScript | AI Agents
Developed a browser extension that automatically saves LLM chats (e.g., ChatGPT sessions) into structured Google Docs using the Google Docs API.
Implemented a context injection feature, allowing users to reuse past conversations by pasting them into a new chat session, effectively preserving memory across separate interactions.Added intelligent indexing with metadata (date, topic, model used) for quick retrieval of past sessions.
Enabled seamless workflow where AI Agents can pick up old conversations, continue reasoning, and generate new outputs with context continuity.
This Solves the common issue of "LLM context loss," providing users with a personal knowledge memory layer across multiple chat sessions.

Vertical & Horizontal Agent Framework | AI Agents | LangGraph | MCP | Next.js | FastAPI
Built an AI agent framework supporting both vertical (domain-specialist) and horizontal (generalist/orchestrator) agents.
Vertical Agents: Specialized in tasks like financial data analysis, medical question answering, or legal compliance research — each optimized with RAG + domain-specific embeddings.
Horizontal Agent: Acts as an orchestrator, delegating queries to the right vertical agent, aggregating results, and generating unified actionable outputs.
Implemented agent collaboration protocols using MCP for memory sharing and LangGraph for agent coordination.
Built a Next.js dashboard to visualize the agent routing pipeline, showing how queries flow between horizontal and vertical agents.

SKILLS

Technical Skills : Python, JavaScript, TypeScript, React, Next.js, FastAPI, Node, Docker, AWS, Azure, PostGRE, HuggingFace, LangChain, Langflow, RAG, MCP, AI Agents, LLMs, Weaviate, FAISS, MongoDB, n8n, Zapier, Pipedream, , CI/CD, Git, Figma, MediaPipe

Soft Skills : Communication, Teamwork,Time Management, Team Management, Leadership, Punctuality, Discipline

Languages : English, Hindi, Gujarati, Marathi