

SHUBHAM KAIN

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SUMMARY

AI/ML Engineer and B.Tech student with hands-on AI development experience and 3 completed projects to show for it. Built an autonomous 4-agent code generation system, a multilingual RAG-based content summarizer, and an NLP spam classifier that achieves 97% accuracy — all from scratch, using Python, LangChain, LangGraph, and RAG architecture. Proficient across the modern AI stack — Machine Learning, Gen AI, LLMs, prompt engineering, and vector databases (ChromaDB, FAISS) — with deployment experience using Streamlit and Docker. Currently seeking an AI/ML engineering internship to develop and deploy production-ready LLM-powered AI systems.

TECHNICAL SKILLS

Programming Languages & Data: Python, SQL, MySQL, Pandas, NumPy

AI / ML: Machine Learning, Deep Learning, Natural Language Processing (NLP), Scikit-learn, TensorFlow, PyTorch

Gen AI & LLMs: LangChain, LangGraph, CrewAI, RAG (Retrieval-Augmented Generation), Prompt Engineering, Gemini API, OpenAI API, Claude API, Hugging Face, FastAPI, LLM Fine Tuning (Quantization, LORA, QLORA, RLHF)

Vector Databases: ChromaDB, FAISS

DevOps & Tools: Docker, MLflow, Git, GitHub, VS Code, Jupyter Notebook, Cursor, Codex, Antigravity

PROJECTS

AI Content Summarizer | github.com/Shubham-Kain/AI-Content-Summarizer

- **Tech Stack:** Python, LangChain, RAG, ChromaDB, Google Gemini, Streamlit
- Built an **AI-powered summarization platform** for **YouTube videos** and documents using **RAG architecture**, **LLM-based workflows**, and **LangChain**.
- Implemented **multilingual YouTube video summarization (English & Hindi)** with **transcript extraction**, **smart timestamps**, and **AI-powered Q&A** features.
- Integrated the **ChromaDB vector database** and **Sentence Transformers** for **semantic search** and **context-aware document retrieval**, and developed an interactive **Streamlit web application**.

AI Base Web Application Builder | github.com/Shubham-Kain/App_Builder

- **Tech Stack:** Python, LangChain, LangGraph, OpenRouter API, Pydantic
- Built an **AI App Builder** using a **4-agent LangGraph pipeline (Planner → Architect → Coder → Verifier)** that converts **plain-English prompts** into fully functional **HTML, CSS, and JavaScript applications** automatically.
- Engineered a **multi-agent AI workflow** using **LangGraph** and **LLM-based orchestration** for automated **application planning, code generation, and execution**.
- Designed a **self-healing verification system** with an automated **Verifier agent** that detects and repairs missing or empty generated files, ensuring reliable **end-to-end code generation**.

Email & SMS Spam Classifier | github.com/Shubham-Kain/Email_SMS_Spam_Classifier

- **Tech Stack:** Python, Scikit-learn, NLP, Streamlit, Pandas, NumPy
- Developed an **Email & SMS Spam Classifier** using **Natural Language Processing (NLP)** and the **Multinomial Naive Bayes (MultinomialNB)** model, achieving **97% classification accuracy**.
- Implemented **text preprocessing, TF-IDF vectorization**, and **feature extraction techniques** to improve **spam detection performance** and **classification efficiency**.
- Built an interactive **Streamlit web application** for **real-time spam prediction** with automated **message analysis** and a **user-friendly interface**.

EDUCATION

B. Tech in Electronics and Telecommunication

Madhav Institute of Technology and Science, Deemed University
CGPA: 7.18/10

Sep. 2023 – May 2027
Gwalior, M.P., India

CERTIFICATES

- Machine Learning Using Python — Simplilearn SkillUP | July 2025
Completed a Machine Learning course, gaining hands-on experience in Data Preprocessing, Model Development and Model Evaluation.
- Crew AI — CampusX | January 2026
Completed a Crew AI course, gaining hands-on experience in building an AI Agents.