Saksham Srivastava

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EDUCATION

Shri Ramswaroop Memorial University — **Lucknow, Uttar Pradesh, India**

Bachelor of Technology — Computer Science (Data Science & AI) — *Aug 2023 – May 2027 (Expected)*

CGPA: 7.1 / 10.0

Relevant Coursework: Machine Learning, Artificial Intelligence, Data Structures & Algorithms, Database Management Systems, Computer Networks

TECHNICAL SKILLS

Languages:	Python, JavaScript, SQL, Bash
ML & AI Frameworks:	PyTorch, TensorFlow, scikit-learn, LangChain, OpenAI API, Hugging Face
MLOps & Data:	Model drift detection, performance monitoring, Pandas, NumPy, Matplotlib, Jupyter
Web & APIs:	FastAPI, Flask, Node.js, React, REST API Design, MongoDB, PostgreSQL
Tools & Infra:	Git, GitHub, Docker, Linux, VS Code
Domains:	Machine Learning, Deep Learning, NLP, LLM Agents, RAG Systems, Agentic AI, Computer Vision

PROJECTS

SmartEdge Copilot | **Python, OpenAI API, LangChain** — *Feb 2025 – Mar 2025*

github.com/Saksham653/smartedge-copilot

- Built an LLM-powered AI copilot with a modular tool/plugin architecture enabling context-aware, multi-step intelligent assistance across diverse user queries.
- Designed the system with clean separation of concerns — prompt engineering, tool orchestration, and response formatting handled as independent modules for extensibility.
- Implemented conversation memory and dynamic tool selection, reducing redundant API calls and improving response coherence across multi-turn interactions.

HR Agent Pro | **Python, LangChain, Agentic AI** — *Feb 2025 – Mar 2025*

github.com/Saksham653/hr-agent-pro

- Developed an autonomous multi-agent HR system using LangChain that automates end-to-end recruitment workflows including candidate screening and communication pipelines.
- Implemented agent orchestration with task decomposition, enabling the system to handle complex HR processes without human intervention at each step.
- Reduced manual recruitment overhead by automating repetitive evaluation and scheduling tasks through structured AI agent handoffs.

ML Drift Detection & Performance Monitoring | **Python, scikit-learn, MLOps** — *Feb 2025*

github.com/Saksham653/ML-DRIFT-DETECTION---PERFORMANCE-MONITORING

- Built a production-grade MLOps monitoring system that detects statistical model drift and tracks performance degradation across accuracy, precision, recall, and F1 metrics over time.
- Designed automated alerting pipelines that flag when model performance drops below configurable thresholds — addressing a critical gap in real-world ML deployment lifecycles.
- Implemented drift detection using statistical tests (KS-test, PSI) on feature distributions to differentiate data drift from concept drift.

FixItClub Groundwater API | **Python, FastAPI, REST API** *Sep 2025*

github.com/Saksham653/fixitclub-groundwater-api

- Developed a RESTful API for groundwater data collection and analysis, enabling civic tech applications to access structured environmental datasets programmatically.
- Built with FastAPI for high-performance async request handling, with clean endpoint design following REST conventions and proper error handling.

LUMIQ — AI Analytics Platform | **React 18, Vite, Groq API, Llama 3.3 70B, Pure SVG** *Mar 2025*

github.com/Saksham653/LUMIQ

- Built a zero-backend, browser-native AI analytics platform powered by Groq + Llama 3.3 70B that transforms raw CSV datasets into interactive intelligence dashboards with sub-100ms AI responses.
- Engineered 7 core features from scratch including natural language data filtering (converts plain English to live JS filter functions), AI-powered forecasting with linear regression + R^2 confidence bands, and a streaming Oracle chat interface seeded with live dataset context.
- Hand-crafted every chart (bar, line, area, donut, heatmap, scatter) as pure SVG with zero external UI libraries, keeping bundle size minimal while maintaining full visual fidelity across 50K+ row datasets.

FlowCraft — AI Content Pipeline SaaS | **Next.js 14, TypeScript, Groq API, PostgreSQL, Prisma, Clerk, Stripe** *Feb 2025*

github.com/Saksham653/Flow-Craft

- Built a full-stack SaaS that chains AI stages into intelligent content pipelines — 4 pipeline templates (Blog, Product Launch, Technical Docs, Email Campaign) and 5 writing personas powered by Groq + Llama 3.3 70B streaming.
- Implemented complete SaaS infrastructure: Clerk authentication (email, Google, GitHub), PostgreSQL + Prisma ORM for session history, Stripe payments for Pro plan, and a credit system with free tier.
- Engineered 25 chained prompts where each stage feeds output into the next automatically, deployed on Vercel with Docker support and ~500 tokens/sec inference speed.

EXPERIENCE

AI & ML Developer — Independent Open Source Projects *Jan 2024 – Present*

Open Source / Independent | Remote

- Independently designed, built, and shipped 7 AI/ML projects spanning agentic systems, MLOps pipelines, REST APIs, and full-stack web applications — all publicly available on GitHub.
- Applied production ML engineering practices including modular architecture, drift monitoring, and agent orchestration across projects, moving beyond notebook-level experimentation.
- Explored cutting-edge AI tooling including LangChain, OpenAI APIs, RAG systems, and multi-agent frameworks through hands-on project implementation.

CERTIFICATIONS

Discover Data Analysis Badge — Microsoft Learn *2024*

Machine Learning Crash Course (In Progress) — Google *2025*

LangChain for LLM Application Development (In Progress) — DeepLearning.AI *2025*