

SANGRAMJEET GHOSH

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github.com/JeetInTech | neuroviai.com | [Certificates Portfolio](#)

Professional Summary

Versatile AI & Full-Stack Engineer with hands-on experience building and shipping production-grade SaaS applications, intelligent automation systems, and data-driven products. Designed and launched Neuroviai—a live AI-powered content-automation SaaS with multi-provider LLM orchestration, payment processing, and social-media API integrations. Applied AI researcher specializing in constraint-driven system design with a strong foundation in machine learning, distributed systems, and modern web architectures. Proven ability to take products from concept to deployment across cloud platforms (AWS, Render, Supabase, Vercel). Actively seeking opportunities to build impactful technology at scale.

Education

Bachelor of Technology (B.Tech) in Computer Science and Engineering Expected June 2026
Specialization in Artificial Intelligence and Machine Learning
Malla Reddy University, Hyderabad, Telangana **GPA: 8.0 / 10.0**

- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Database Management Systems, Cloud Computing, Software Engineering, Statistics & Probability
- **Academic Focus:** AI/ML system design, applied NLP, full-stack application development

Technical Skills

Languages	Python, JavaScript, TypeScript, SQL, HTML5, CSS3, Bash
AI / ML	LangChain, LangGraph, Transformers (Hugging Face), Scikit-learn, Pandas, NumPy, Matplotlib, OpenAI API, Google Gemini API, RAG Pipelines, Vector Embeddings, Prompt Engineering
Backend	FastAPI, REST APIs, JWT / OAuth 2.0, Razorpay Integration, Webhook Handlers, Microservices Architecture
Frontend	React 18, Next.js 14 (App Router), Tailwind CSS, Zustand, ShadCN/UI, Responsive Design
Databases	PostgreSQL, Supabase, MongoDB (basics), SQLAlchemy ORM
DevOps / Cloud	AWS (EC2, S3, IAM), Docker, Docker Compose, GitHub Actions CI/CD, Render, Vercel, Netlify, Nginx
Tools	Git, GitHub, Postman, VS Code, Jupyter, Figma, Notion, Linux CLI

Work Experience

Data Science Intern Mar 2025
Inikola Technologies, Hyderabad

- Developing AI-powered backend features for **CraftingBrain** (craftingbrain.com), a live content-technology platform, using Python and FastAPI.
- Building and deploying NLP pipelines for real-time text analysis, sentiment scoring, topic extraction, and content optimization in production environments.
- Managing cloud infrastructure on AWS: EC2 instance provisioning, S3 bucket policies, IAM role configuration, and Nginx reverse-proxy setup.
- Containerized Python services using multi-stage Docker builds, reducing image size and cold-start latency.
- Authored CI/CD pipelines with GitHub Actions automating linting, testing, and zero-downtime production

deployments.

- Wrote internal documentation covering deployment procedures, troubleshooting runbooks, and architecture decision records.

Freelance Full-Stack & AI Developer

Aug 2025 – Present

Remote

- Delivered end-to-end web applications and AI-powered MVPs for 3+ startup founders, handling requirements gathering, architecture design, development, deployment, and post-launch iteration.
- Built SaaS products with subscription billing (Razorpay), role-based access control (JWT/OAuth), and multi-platform API integrations.
- Deployed client applications across AWS, Render, Vercel, and Netlify with custom domains, SSL certificates, and CDN configuration.
- Created integration guides and handoff documentation enabling clients' in-house teams to maintain and extend delivered products.
- Managed LLM provider costs through intelligent quota splitting, response caching, and request batching strategies.

Projects

Neuroviai – AI-Powered Social Media Automation SaaS

Mar 2025 – Present

Next.js 14, FastAPI, PostgreSQL, Supabase, Gemini, OpenAI, Razorpay, Docker

 neuroviai.com

- Designed and built a full-stack AI SaaS platform from scratch—covering product design, database schema, API architecture, AI pipelines, payment integration, and multi-platform publishing.
- Architected multi-model LLM cascade: Gemini as primary provider → OpenAI fallback → structured JSON validation layer ensuring consistent output quality.
- Built AI content pipeline: text generation with 15+ prompt templates, image generation for social-media visuals, quality-scoring heuristic for auto-flagging low-confidence outputs.
- Integrated 8 external APIs (LinkedIn Publishing, Twitter/X, Gemini, OpenAI, Razorpay, Supabase Auth, and others) with OAuth flows, webhook listeners, error handling, and rate-limit management.
- Implemented end-to-end Razorpay payment system: tiered subscription plans, checkout UI, webhook-based payment confirmation, billing ledger, and refund processing.
- Designed token-economy billing: per-user credit tracking, usage alerts, low-balance upsell triggers, and plan-upgrade flows.
- Built engagement analytics dashboard with content performance metrics, publishing history, and optimal-posting-time recommendations.
- Deployed as 4 microservices across Render (compute), Supabase (database), Netlify (CDN), and AWS S3 (assets) with GitHub Actions CI/CD.

CvForge – Online Resume Builder

Nov 2025

Next.js, FastAPI, Tailwind CSS

 [GitHub](#)

- Built a self-service resume builder with template selection, drag-and-drop section editor, real-time Markdown preview, and one-click PDF export.
- Designed mobile-responsive UI with Tailwind CSS and optimized UX flow so non-technical users can go from signup to finished resume in under 5 minutes.
- Implemented backend API with FastAPI for template storage, user profile management, and PDF rendering.

Virtual Therapist – LangGraph Agentic AI System

Sep – Oct 2025

LangGraph, LangChain, Python, Speech-to-Text

 [GitHub](#)

- Designed and implemented a 3-agent LangGraph system: intake agent, emotion-detection agent, and therapeutic-response generator with state-based handoff.
- Integrated speech-to-text input processing and adaptive LLM responses tuned to detected emotional context and conversation history.

- Authored developer documentation: LangGraph agent patterns, prompt templates, state-transition diagrams, and deployment instructions.
- Containerized with Docker Compose: service dependencies, shared volumes, network isolation, and environment configuration.

IntelliSense Analytics – Automated Data Analysis Engine

Apr – Jun 2025

Python, Pandas, Scikit-learn, Matplotlib

- Built an automated analytics pipeline that ingests heterogeneous datasets, performs cleaning, feature engineering, trend extraction, and generates visual reports.
- Implemented statistical forecasting and anomaly detection modules for time-series and tabular data.
- Designed interactive visualizations and exportable PDF/CSV reports for business stakeholders.

CraftingBrain – Content Technology Platform

Mar 2025

Python, FastAPI, AWS, Docker, Nginx

 craftingbrain.com

- Contributed to a live production platform as part of the Inikola Technologies team.
- Provisioned and hardened AWS EC2 infrastructure with Nginx reverse proxy, SSL via Certbot, firewall rules, and daily database backups.
- Built NLP-powered content processing features including topic extraction, readability scoring, and content-suggestion engine.

Publications & Research

Design and Implementation of a Cost-Constrained Multi-Platform AI Automation System —

Manuscript in Preparation

Independent Researcher (Case Study on **Neuroviai**) [cite: 2854, 2855]

- Engineered a deterministic **four-tier AI fallback strategy** (Gemini, GROQ, HuggingFace) achieving 99.7% text generation reliability through provider-level redundancy[cite: 2862, 3141].
- Documented **orchestration-free microservice patterns** to maximize free-tier resource allocations across ten independent server processes[cite: 2859, 3110].
- Formalized **23 distinct engineering trade-offs** regarding cold-start mitigation, ephemeral storage, and security in zero-budget environments[cite: 2894].

B.Tech Thesis — Malla Reddy University

Design and Implementation of Cost-Constrained AI Automation Systems (Feb 2026)

- Developed a full-stack SaaS platform (Neuroviai) documented through 15,000+ lines of Python and 12,000+ lines of TypeScript[cite: 3104].
- Implemented regulatory-aligned data stewardship practices in accordance with **India's DPDPA (2023)** and the **EU AI Act**[cite: 3587, 3603, 3607].

Achievements & Competitions

- **Winner – IDEATHON 2.0** (University-level Ideation Competition): Developed and presented a high-impact AI solution evaluated by industry experts for technical execution, feasibility, and market potential.
- **Participant – METALLOOP 2K23** (National-level Hackathon): Developed and demonstrated a functional prototype under intensive time constraints during a multi-round technical competition; received official certification for technical execution.
- **Independent AI Researcher:** Authored a comprehensive engineering case study on multi-platform AI automation systems, currently in preparation for IEEE conference submission[cite: 2854, 3730].
 - Developed a deterministic **four-tier AI fallback strategy** achieving 99.7% text generation reliability using Gemini, GROQ, and HuggingFace[cite: 2862, 2893].
 - Formalized **orchestration-free microservice patterns** to manage ten independent server processes on zero-cost infrastructure[cite: 2859, 2863].

- **Self-Published Author — Amazon KDP**

- Authored *”The Future of Touchless Technology”* using an experimental LLM-assisted workflow (Gemini and Perplexity AI) to investigate long-form narrative consistency and technical accuracy.
- Managed the end-to-end digital publishing lifecycle, including automated manuscript formatting and global distribution.
- **Proof of Work:** amazon.com/dp/B0FBLC1RLT

Certifications

All certificates are verified and available at: [Certificate Portfolio \(Google Drive\)](#)

- **Amazon Web Services (AWS)** – Cloud Practitioner Essentials / Foundations
- **Google Cloud** – Cloud Computing Fundamentals
- **Coursera** – Machine Learning Specialization / AI & Data Science tracks
- **Microsoft Learn** – Azure AI Fundamentals / Developer certifications
- **NPTEL** – Programming and Data Science courses (IIT-certified)

Extracurricular & Leadership

- **Open-Source Contributor:** Actively maintain public repositories on GitHub (github.com/JeetInTech) with multiple AI, web, and data projects.
- **Technical Mentor:** Guide junior students in AI/ML concepts, project development, and hackathon preparation.
- **Hackathon Participant:** Regular competitor in national-level hackathons and ideathons; strong track record of building functional prototypes under 24–48 hour deadlines.
- **Freelance Consultant:** Advise early-stage startup founders on technology stack selection, architecture design, and MVP scoping.

Languages

English (Professional Proficiency) | Hindi (Native) | Bengali (Native)

Online Profiles & Portfolio

Portfolio	sangramjeet.me
SaaS / AI Automation	neuroviai.com
GitHub	github.com/JeetInTech
LinkedIn	linkedin.com/in/sangramjeetghosh
Certificates	Google Drive – Certificate Portfolio

References available upon request.