Sivajeet Sabdakar

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Software Developer specializing in full-stack development, AI/ML integrations, and scalable system architecture. Proven track record of architecting robust backend modules, secure RESTful APIs, and LLM-based AI agents. Strong expertise in Python, Flask, FastAPI, React.js, and modern AI technologies including NLP, LLM integration, and RAG.

Experience

Software Developer Intern — Oct 2025 – Present
QuickIntell — *Gandhinagar, Gujarat (Hybrid)*

- Architected scalable backend modules and secure **RESTful APIs** for a HIPAA-compliant Healthcare Management System using **FastAPI** and **PostgreSQL**, ensuring robust data handling for sensitive medical information.
- Integrated secure Payment Gateways and optimized database schemas in an Agile environment, streamlining billing workflows for high-volume sensitive data.

Machine Learning Intern — Mar 2025 – Aug 2025
ComputeLib — *Noida, UP (Remote)*

- Architected full-stack AI integrations for major e-commerce platforms using Clean Architecture, refactoring monolithic codebase into modular services to reduce dependency coupling and simplify testing.
- Engineered LLM-based AI agents and a Model Context Protocol (MCP) server to orchestrate dynamic content generation, significantly accelerating feature rollout.

Education

Indian Institute of Information Technology, Vadodara — Gandhinagar, Gujarat
*Bachelor of Technology - Computer Science Engineering (CPI: **9.06** / 10.00)* — *Expected May 2027*

Projects

StackIt: AI-Moderated Q&A Platform | *Python, Flask, AI* [Source Code]

- Engineered a scalable microservice architecture during a **Hackathon**, handling **500+** concurrent requests, and integrated **NLP** and **CV** pipelines to automate content filtering with **95% detection accuracy** for toxic text and unsafe media.
- Implemented **Cloudinary** workflows with configurable thresholds for precise content moderation with customizable sensitivity settings.

Flinder: AI-Powered Flatmate Matcher | *Python, Flask, Supabase* [Source Code]

- Secured a **Hackathon Victory** by architecting a recommendation engine with **vector embeddings**, validated through user acceptance testing, and leveraged **Supabase** for real-time sync with data retrieval latency under **50ms**.
- Deployed optimized APIs for a **Flutter** frontend with efficient caching strategies, enabling instant chat capabilities and improved responsiveness.

HawkeRoute: Smart Hawker Route System | *Flask, Celery, Redis, Twilio* [Source Code]

- Developed an asynchronous backend using **Celery** and **Redis** to process **1,000+** daily background tasks for dynamic routing, and designed optimized **SQL** schemas with strategic indexing to handle complex transactions efficiently.
- Integrated **Twilio** for automated SMS alerts and built backend support for **live tracking** visualization, enabling real-time logistics coordination and dynamic route optimization for urban delivery operations.

VocaLingo: Real-Time Translation App | *LibreTranslate, Docker* [Source Code]

- Engineered a custom **stereo audio routing** system to isolate input/output channels and orchestrated real-time **STT** and **TTS** data streams with multi-threading, enabling simultaneous bi-directional conversation across **40+ languages** with synchronized audio processing.
- Deployed a self-hosted **LibreTranslate** instance via **Docker**, eliminating API rate limits and reducing translation latency to under **200ms** for fluid live interpretation.

Digit Recognition Neural Network | *Python, NumPy, Matplotlib* [Source Code]

- Constructed a **Feedforward Neural Network** processing **60,000** MNIST images, implementing backpropagation from scratch, and achieved **97% classification accuracy** by fine-tuning hyperparameters and optimizing weight initialization strategies.
- Utilized **Matplotlib** for diagnostics, improving model convergence speed by **2x** through visualized loss function analysis.

AutoPrep.ai (formerly Class Buddy) | *Flask, NLP, Python* [Source Code]

- Secured a **3rd position at HackTheMoutains 5.0** by building a question-similarity engine using **vector embeddings** (BERT/TF-IDF) to recommend personalized practice questions based on historical exam patterns.
- Developed custom **NLP** pipelines to analyze historical exam datasets, identifying key question patterns with **90%+ precision** and automating study material curation.

Technical Skills

- **Frameworks**: Flask, FastAPI, React.js, Streamlit, NumPy, Matplotlib
- **Tools**: Docker, Git, Redis, Celery, Supabase, Cloudinary, Twilio, Postman, Firebase
- **Databases**: PostgreSQL, MongoDB, MSSQL, SQLite
- **AI/ML**: Natural Language Processing (NLP), NLTK, DeepFace, LLM Integration, RAG, Context Engineering, Speech-to-Text, Computer Vision
- **Concepts**: System Design, REST API Design, Microservices, Clean Architecture, Object-Oriented Programming (OOP), Agile, Asynchronous Programming

Achievements & Positions of Responsibility

- **5X Hackathon Participant** (**2X Wins**)
- **4-star Coder @CodeChef** (Max Rating: **1807**) – Competitive programming on a global platform
- **Google Developer Group on Campus Organiser, IIITV** - Selected by GDG (formerly GDSC)
- **Core Member** – **IIITV Coding Club** (Domains: **AI/ML**, **Full Stack**)
- **Joint Secretary** – **Encore Music Club**, **IIIT Vadodara**
- **Published** a research chapter in *Exploring the Gender-Technology Consecution*, published by Evincepub Publishing