Sivajeet Sabdakar

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SUMMARY

Computer Science Pre Final year student with strong desire to learn and grow in AI and machine learning, specializing in Large Language Models (LLMs), Retrieval Augmented Generation (RAG) workflows, and conversational AI systems. Hands-on experience developing LLM-driven solutions, NLP pipelines, and AI frameworks using Python. Strong foundation in ML/DL techniques, microservices architecture, and cloud-based deployment with Docker. Proven ability to contribute to scalable AI systems, evaluate RAG pipelines, and implement multi-turn conversational interfaces.

EXPERIENCE

FadFocus   Pune, Maharashtra (Remote)
Software Development Intern   *Nov 2025 – Present*

- Developed AI-powered features using **Python** and **LLM** integrations, implementing conversational AI workflows and contributing to model fine-tuning processes for product personalization systems.
- Assisted in deploying AI frameworks in cloud-based environments using **Docker**, participated in code reviews and testing processes, and helped evaluate AI pipeline performance and accuracy.

QuickIntell   Bangalore, Karnataka (Remote)
Freelancer   *Oct 2025 – Present*

- Developed scalable backend modules and **RESTful APIs** using **Python** and **FastAPI** for enterprise systems, applying microservices architecture principles and cloud-based deployment strategies with **Docker**.
- Contributed to system design and implementation, participated in code development and design reviews, and applied problem-solving mindset to optimize database schemas and API performance.

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

- Developed **LLM-based AI agents** and conversational AI workflows using **Python**, contributing to the design and implementation of domain-specific agent frameworks supporting multi-turn conversations powered by **LLMs**.
- Assisted in developing scalable AI systems and **RAG** workflows, participated in evaluating conversational AI pipelines, and helped identify system limitations to recommend improvements in collaboration with senior engineers.

EDUCATION

Indian Institute of Information Technology, Vadodara   Gandhinagar, Gujarat
*Bachelor of Technology - Computer Science Engineering (CPI: **8.99** / 10.00)*   *Expected May 2027*

PROJECTS

StackIt: AI-Moderated Q&A Platform
Python, Natural Language Processing, Conversational AI, Microservices, Docker   [Source Code]

- Developed scalable microservice architecture using **Python**, handling **500+** concurrent requests, and integrated **NLP** pipelines to automate content filtering with **95% detection accuracy** for toxic text, improving how AI understands and responds in conversations.
- Implemented conversational AI workflows with configurable thresholds for content moderation, deployed using **Docker** in cloud-based environments, and evaluated pipeline accuracy and performance metrics.

VocaLingo: Real-Time Translation App
Python, Natural Language Processing, Speech-to-Text, Text-to-Speech, Docker, Conversational AI[Source Code]

- Engineered real-time conversational AI system using **Python** with **STT** and **TTS** pipelines, enabling multi-turn, multi-modal conversations across **40+ languages** with synchronized audio processing and sub-**200ms** translation latency.
- Deployed self-hosted translation service via **Docker** in cloud-based environment, implementing dialogue systems that improve AI understanding and response accuracy in real-time conversations.

AutoPrep.ai: AI-Powered Study Assistant

Python, Large Language Models, Vector Embeddings, RAG, Natural Language Processing   [Source Code]

- Developed question-similarity engine using **vector embeddings** (BERT/TF-IDF) and **RAG** workflows to recommend personalized practice questions, demonstrating understanding of **LLMs** and their applications in educational contexts.
- Built custom **NLP** pipelines to analyze historical exam datasets with **90%+ precision**, implementing retrieval-augmented generation techniques to automate study material curation and improve recommendation accuracy.

Flinder: AI-Powered Flatmate Matcher

Python, Machine Learning, Vector Embeddings, REST APIs, React.js   [Source Code]

- Architected recommendation engine using **Python** with **vector embeddings** and **ML** techniques, validated through user acceptance testing, achieving data retrieval latency under **50ms** for real-time matching.
- Developed **RESTful APIs** supporting **React.js** frontend, implementing efficient caching strategies and microservices architecture to enable instant chat capabilities and improved system responsiveness.

Technical Skills

- **Programming Languages**: Python, JavaScript
- **AI/ML & LLMs**: Large Language Models (LLMs), Retrieval Augmented Generation (RAG), Natural Language Processing (NLP), Conversational AI, Dialogue Systems, Vector Embeddings, Machine Learning, Deep Learning
- **Frameworks & Libraries**: React.js, Node.js, Flask, FastAPI, REST APIs, NumPy, Matplotlib
- **Cloud & DevOps**: Docker, Kubernetes, Microservices Architecture, Cloud-based Deployment
- **Tools**: Git, Jupyter Notebooks, Visual Studio Code, PyCharm, Redis, Postman
- **Databases**: PostgreSQL, MongoDB, SQLite
- **Concepts**: System Design, REST API Design, 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**)
- **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