SPARSH SRIVASTAVA

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EDUCATION

Pranveer Singh Institute of Technology   **Oct 2020 − June 2024**
B.Tech (CSE) - 6.5 CGPA   *Kanpur, India*
Coursework: DSA, Operating Systems, DBMS, Computer Networks, AI.

Bishop Westcott School   **Apr 2018 − May 2019**
12th Standard - ICSE - 82.5%   *Kanpur, India*

EXPERIENCE

Frontend Developer Intern   **July 2024 − Sep 2024**
VASTECH   *Remote*
- Developed a responsive iOS grocery shopping app using **Swift** and **Firebase**, ensuring robust backend support and real-time database synchronization.
- Collaborated with the QA team to debug UI/UX issues, perform User Acceptance Testing (UAT), and validate features before final deployment.
- Optimized app performance by reducing load times and implementing efficient memory management techniques.

AI Engineer Intern   **Jan 2024 − June 2024**
Awaaz International   *Remote*
- Engineered a **Language Translation App** leveraging NLP models to facilitate real-time multilingual communication.
- Optimized model inference time for faster translation outputs, improving overall application performance and user retention by 20%.
- Integrated third-party APIs into the existing ecosystem, ensuring seamless data flow and high accuracy in text conversion.

PROJECTS

SmartBank AI System (Link) | *Java, Spring Boot, Python*   **Oct 2025 − Present**
- Architected a **hybrid microservices** platform integrating a Java Spring Boot backend for secure banking transactions with a Python Flask AI service.
- Implemented **RESTful API** communication to bridge Java and Python services, enabling real-time credit score analysis based on account history.
- Designed a modular architecture using **Maven** for dependency management and **Git** for version control, ensuring scalable code maintenance.

SmartCart-AI (Link) | *Python, AI/ML, Pandas*   **Feb 2025 − Sept 2025**
- Developed an intelligent shopping assistant that leverages **AI algorithms** to suggest products based on user purchase history and trending items.
- Integrated a collaborative filtering recommendation engine to personalize the shopping experience, increasing user engagement potential.
- Utilized **Pandas** for data preprocessing and cleaning to ensure high-quality input for the recommendation model.

Local RAG AI Researcher (Link) | *LangChain, Ollama*   **July 2024 − Jan 2025**
- Built a privacy-focused **RAG Assistant** to query local documents using offline LLMs (Ollama) and LangChain orchestration.
- Implemented vector search with **ChromaDB** to retrieve context-aware answers without cloud data leakage, ensuring data security.
- Reduced query latency by optimizing the chunking strategy and embedding generation process for local PDFs.

TECHNICAL SKILLS

Languages: Java, Python, C++, Swift, SQL, JavaScript
Frameworks: Spring Boot, Flask, Firebase, LangChain, Hibernate
Tools: Git, Maven, IntelliJ IDEA, Postman, Ollama, Docker
Concepts: DSA, Microservices, RAG, System Design, AI/ML, REST APIs

ACHIEVEMENTS

LeetCode Knight: Ranked **Top 5.89%** globally; Solved **500+** DSA problems.

Professional Certificate in GenAI & ML – IIT Guwahati (IITG).

5 Star Badge in C++ and SQL on HackerRank.