

# AMAN SHARMA

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## SKILLS

- ❖ **\*\*Programming Languages:\*\*** :- Python (Expert), JavaScript (Proficient), SQL (Proficient), Java, C++
- ❖ **\*\*AI & Machine Learning:\*\***:- Generative AI, Agentic AI, RAG, Large Language Models (LLMs) Fine-tuning, Automatic Speech Recognition (ASR) Fine-tuning, Data Visualization, Data Processing & Manipulation
- ❖ **\*\*Frontend Development:\*\*** :- React.js, Next.js, Tailwind CSS
- ❖ **\*\*Backend Development:\*\***:- FastAPI, API Development
- ❖ **\*\*Deployment & DevOps:\*\***:- Docker, Kubernetes, Vercel, Netlify, Firebase, Streamlit, Azure Cloud
- ❖ **\*\*Data & Analytics Tools:\*\***:- Pandas, NumPy, Kafka
- ❖ **\*\*Monitoring & Observability:\*\***:- Prometheus, Grafana

## PROFESSIONAL EXPERIENCE

**Salesken.ai – Machine Learning Intern (On-site) | Bengaluru, India March 2025 – Present**

- ❖ **Fine-tuned** the Mistral-7B model to give better responses format and increased goal detection accuracy by 10%.
- ❖ **Fine-tuned** the Whisper-small(ASR) for better transcription reducing WER by 40%.
- ❖ **Optimized ASR service**, enhancing memory efficiency by **up to 25%** and improving overall processing performance by **15%**.
- ❖ **Integrated a noise cancellation feature** into the core product, leading to a **20% improvement** in audio clarity for users.
- ❖ Conducted **multiple proofs-of-concept (POCs)** for **10-15 LLM models**, evaluating their suitability and performance
- ❖ POCs on **quantized LLM models** within frameworks like Ollama, identifying potential compared to unquantized alternatives.

**Marathon Trends Advisory Private Limited – Software Developer & Research Analyst | Mumbai, India May 2024 – March 2025**

- ❖ Revamped **backtesting algorithms**, reduced processing time by 67% (from over 20 hours to under 7 hours) through implementation of **memoization, dynamic programming, and caching**.
- ❖ **Spearheaded** the design and deployment of a **full-stack application** for research analysts using **FastAPI and React.js**, to a 50% reduction in manual data processing.
- ❖ Developed a **finance-specific chatbot** based on **RAG models with OpenAI embeddings, ChromaDB, and LangChain**, 40% better response times.
- ❖ Developed a sentiment analyzer service that leveraged real-time scraped data from sources like Google Finance to deliver actionable market insights with 90% accuracy
- ❖ Regularly Constructed a **technical financial database** to manage over 3,000 + stocks data containing essential metrics (e.g., PE ratios, PAT, MC), optimizing data processing by 30% using **Pandas**.

**GS Design- Full Stack Developer | Remote , May 2023 - April 2024**

- ❖ Worked on front and backend of global e-commerce clients like(squarepeg) (custoking).
- ❖ Designed and developed frontends for 5+ e-commerce apps using React js and Tailwind Css.
- ❖ Integrated APIs with cross-functional teams, .

## EDUCATION

**Maulana Abul Kalam Azad University of Technology | West Bengal, India Bachelor of Technology (B.Tech) in Computer Science and Engineering Graduated: 2023 | CGPA- 8.9**

**Courses-** [Mathematics for Machine Learning: Multivariate Calculus\(coursera\)](#) , [A Crash Course in Data Science\(coursera\)](#),[AWS Fundamentals: Going Cloud-Native, Cybersecurity and Its Ten Domains\(coursera\)](#), [Interactivity with JavaScript\(coursera\)](#)

## PROJECTS

- ❖ **Interview Bot:**Created an **AI-powered speech-to-speech interview bot** using Llama(LLM), PlayAI(TTS), and Whisper(ASR), allowing users to practice interviews for selected roles and receive immediate feedback.
- ❖ **Custom Rag** :Built a Streamlit-based RAG application using Groq LLM and ChromaDB to enable document-based Q&A over uploaded PDFs/DOCX with chunked vector search and semantic retrieval.
- ❖ **Brain Tumor Detection Application:**Engineered a **Deep Learning application** for brain tumor detection utilizing **Convolutional Neural Networks (CNN)**, achieving an impressive 82% accuracy on MRI scans.(collage project)
- ❖ **OpenChat** :Realtime group chatting application built using React and Firebase.

## ACHIEVEMENTS

- ❖ **WBJEE(2019)** rank- 2421
- ❖ **LeetCode Enthusiast:** Solved **600+ coding problems** with over 130,000 profile views, showcasing strong expertise in Data Structures & Algorithms (DSA).