ABHINAV SHARMA

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SUMMARY

Product Software Engineer at Samsung R&D with hands-on experience building LLM-powered RAG systems, automation tools, and real-time documentation platforms that reduced resolution time by 95% and manual effort by 90%+. Strong foundation in MERN-based e-commerce systems and enterprise asset management platforms, providing scalable, secure, and high-performance solutions. Proficient in React.js, Flask, Mistral, Node.js, and Python with a strong foundation in full-stack and AI-driven development.

EDUCATION

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY   **Noida, India**
BTech in Computer Science & Engineering, CGPA: 7.9   *Sep 2020 – Jun 2024*
DAV PUBLIC SCHOOL   **Ghaziabad, India**
Class 12th Percentage: 94.4%   *Apr 2018 – Mar 2019*

EXPERIENCE

Samsung R&D Institute India Delhi (React.js, Flask,LLaMA3, HuggingFace, ChromaDB)   **Jun 2024 – Present**
Product Software Engineer   *Noida, India*
- **Salesforce Summary & Insights Advisor** – Developed a real-time B2B defect resolution tool using **React.js**, **Flask**, **LLaMA3**, **HuggingFace**, and **ChromaDB**, empowering L1 engineers with instant insights.
- Designed a Retrieval-Augmented Generation (RAG) system embedding 10,000+ Salesforce tickets into a vector DB, reducing manual lookup time by 90%.
- Engineered a similarity search engine to retrieve and summarize top 5 resolutions in under 3 seconds, cutting average response time from 24 hours to 30 minutes.
- **AI Assistant for ESS** – Engineered a one-click documentation platform using **React.js**, **Flask**, **Mistral**, and **Docx** to automate reporting for urgent post-upgrade market issues across 10+ regions.
- Automated API-based data ingestion and report generation in under 60s, ensuring format compliance and saving 6–8 man-hours per issue.
- Integrated **Mistral RAG** to auto-generate "How-To Verification" fields with 90%+ accuracy (benchmarked on historical reports), enabling a 10x boost in review throughput with minimal human oversight.
- **Automation tools** - Developed internal automation tools like **OTN Uploader** and **Menu Tree Analyser** using **Python**, **Streamlit**, and **Selenium**, reducing manual effort of 4 engineers (4 hrs/day) to a single-click process.

Change CX India Private Limited (React.js, Express.js, Node.js, GraphQL)   **Jan 2024 – May 2024**
Software Trainee   *Noida, India*
- Designed a modular MERN-based e-commerce platform, cutting page load times by 40% and improving navigation latency.
- Integrated CMSs **Cloudinary** and **Amplience** to reduce load times by 90%, and modularized UI with **Commercetools** for 99% uptime.
- Implemented secure payment flows via **Adyen**, reducing fraud by 60%, and set up **Klaviyo** for event-based email automation (CTR: 39.74%).
- Deployed AI-powered product recommendations using **Algolia**, boosting engagement by 39.74%.

Shri Ram Piston and Rings Ltd (React.js, Express.js, Node.js, MongoDB, Postman)   **May 2023 – Jul 2023**
Web Developer   *Ghaziabad, India*
- Architected a full-stack asset management system using **React.js**, **Node.js**, and **Express.js**, enhancing operational efficiency and tracking.
- Enabled RESTful APIs and backend logic to support over 1,000 concurrent users; implemented database layer with **MongoDB**.

PROJECTS

Disease Prediction & Health Tracker Website
- Built a full-stack disease prediction and health tracking app using **React.js**, **Node.js**, and **MongoDB**, handling 500+ concurrent users.
- Integrated **Random Forest Classifier** with cleaned datasets to predict diseases with 95% accuracy after tuning.
- Enabled keyword/category-based search and **CRUD APIs** for patient data, boosting engagement by 35% and reducing manual entry by 60%.

TECHNICAL SKILLS & ACHIEVEMENTS

- **Programming Languages:** C++, C, Python, JavaScript, TypeScript, GraphQL, SQL, MySQL
- **Web & Backend Technologies:** React.js, Node.js, Express.js, Flask, Streamlit, REST APIs, Tailwind CSS, Material-UI, HTML5, CSS3, Selenium
- **AI/ML Tools & Frameworks:** Hugging Face, LLaMA3, Mistral, ChromaDB, LangChain, Scikit-learn, Pandas, NumPy, Transformers, Retrieval-Augmented Generation (RAG)
- **DevOps & Tools:** Git, GitHub, Postman, VS Code, Jupyter, Agile Methodologies
- **Software Domains:** Software Engineering, AI Engineering, Full-Stack Development, Web Automation, Prompt Engineering, API Integration, LLM, Data Engineering (basic)
- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Machine Learning, Computer Networks, Competitive Programming
- **Achievements:** Qualified Samsung SWC Advanced Test, Solved 600+ LeetCode DSA problems, CodeChef 3, JEE Mains AIR 51,300, Google Cloud – 11 Badges, LeetCode Contest Rank: 3,241 / 30,506