

SARANSH SHARMA

Data Scientist & Full-Stack ML Developer

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PROFESSIONAL SUMMARY

Data Scientist and Machine Learning Practitioner with a specialized focus on building, deploying, and maintaining production-grade ML applications. Expert in transforming raw, unstructured data into actionable business insights through rigorous statistical analysis and end-to-end ML pipelines. Unique expertise in bridging the gap between backend ML logic (FastAPI/Flask) and frontend delivery (Flutter) to create seamless user experiences.

CORE SKILLS

Machine Learning & AI: Regression, Random Forest, XGBoost, NLP (Sentence-BERT), TF-IDF, RAG Pipelines, Prompt Engineering

Data & Analytics: Exploratory Data Analysis (EDA), Statistical Analysis, Feature Engineering, Power BI, Tableau

Programming & DBs: Python (Expert), SQL, FastAPI, Flask, MySQL, PostgreSQL

DevOps & Deployment: Docker, AWS (EC2), GitHub Actions, REST API Development, scikit-learn Pipelines

PROFESSIONAL EXPERIENCE

Spark Allies LLC | Marketing Data Analyst (Intern) | Aug 2023 - Oct 2024

- * Analyzed multi-channel campaign data to identify high-conversion patterns, driving a 30% increase in lead generation efficiency.
- * Engineered automated reporting workflows using Excel and Power BI, reducing manual data entry and turnaround time.
- * Designed and maintained interactive dashboards to monitor real-time KPIs, including ROI, engagement rates, and traffic trends.
- * Conducted SEO and keyword performance analysis to forecast content visibility trends and optimize user engagement strategies.

TECHNICAL PROJECTS

[AIO Hybrid Recommendation System | Lead Developer](#)

- * Engineered a cross-domain recommendation engine by scraping and processing a custom dataset of 15,000+ movies, anime, and web series via the TMDB API.
- * Developed a dual-layered hybrid architecture combining SBERT semantic embeddings (60%) and TF-IDF (40%) for deep context and relevance.
- * Built and deployed a production-grade ETL pipeline to unify inconsistent metadata, delivering real-time recommendations through a FastAPI backend.

[Mumbai House Price Prediction | Full-Stack ML Engineer](#)

- * Engineered a high-performance regression model using XGBoost and Random Forest, achieving an R2 score of 0.80 via advanced feature engineering.
- * Architected a RESTful Flask API optimized for low-latency inference, enabling instantaneous property valuations.
- * Developed a production-ready Flutter mobile application featuring localized Indian currency formatting (Lakhs/Crores) and dark mode.

EDUCATION

Master of Computer Applications (MCA)

2024-Present

Data Science & AI | Manipal University Jaipur

Bachelor of Computer Applications (BCA)

2019-2022

Star Infotech College, Ajmer