

# 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:** Render, 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