

# SARTHAK TADWALKAR

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## PROFESSIONAL SUMMARY

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AI & Data Science graduate with knowledge of developing intelligent systems and predictive analytics solutions. Passionate about bridging AI/ML and Data to create next-generation solutions. Looking for an internship to learn and apply AI/DS skills in enhancing services with intelligent automation, smart search systems, and data-driven insights for clients.

## EDUCATION

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**K. J. Somaiya Institute of Technology**, Affiliated to University of Mumbai Nov 2022 – May 2026  
*Bachelor of Technology in Artificial Intelligence and Data Science* **CGPA - 8.44**

**Relevant Coursework:** Engineering Mathematics, Database Management System, Data Warehousing and Mining, Artificial Intelligence, Machine Learning, Data Analytics and Visualization, Big Data.

## WORK EXPERIENCE

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**AI Programming Intern** | [Raasta Consulting Pvt Ltd](#), Mumbai Feb 2025 – May 2025

- Analyzed **100K+ production-grade dataset** through EDA and visualization to support business decision-making, and extracted actionable insights from complex data.
- Reduced business analysis turnaround time by **60%** through workflow and reporting automation using **Cache-Augmented Generation (CAG)** solution within **45 days**.
- Partnered with teams to **define KPIs** and deliver intelligence dashboards to support strategic decision-making.

## PROJECTS

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**Swift-Query** | *Python, ChromaDB, Streamlit, Ollama-mistral* [GitHub Repo](#)

- Built production-ready Retrieval Augmented Generation system processing **170-page** financial report, achieving **90% retrieval accuracy** with **zero hallucinations** using local LLM infrastructure.
- Engineered semantic search filtering through vector database (**ChromaDB**), reducing financial data retrieval time from hours to **sub-minute response**.
- Automated **Local, offline extraction** of financial and operational metrics from PDFs, achieving **10sec initial latency** for sub-minute retrieval.

**Customer Churn Analysis** | *SQL, Python, Power BI*

- Performed churn analysis on **77K+ customer records** using SQL and statistical analysis, conducting data validation and identified high-impact retention opportunities.
- Identified a **4x higher churn rate** among customers with **3+ support interactions**, uncovering key drivers of customer attrition through data exploration and analysis.
- Developed Power BI Intelligence Dashboards and analyzed customer segments representing **80% of the customer base**, delivering actionable insights that supported targeted retention strategies projected to **reduce churn by 15%**.

## TECHNICAL SKILLS

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**AI & Machine Learning:** LLM Integration, RAG/CAG Systems, Predictive Analytics, Model Training and Evaluation

**Programming Languages:** Python, SQL (MySQL, PostgreSQL), R

**Data Science & Analytics:** Scikit-learn, Pandas, NumPy, Matplotlib, Statistical Analysis, Feature Engineering, EDA

**Data & Business Intelligence:** Power BI, Tableau, Excel, Data Modeling, ETL Processes

**Tools & Platforms:** Git, GitHub, AWS, Jupyter Notebooks

## LEADERSHIP & CERTIFICATIONS

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**Data Analysis with R Programming** by Google [Credential](#)

**GDSC Core Member** | K. J. Somaiya Institute of Technology [Recommendation](#)

- Collaborated with core committee to drive student engagement and technical initiatives, earning direct recommendation from Club Lead for outstanding leadership and contributions to community development.