

# Rahul Sharma

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## Education

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<b>V.I.T. Bhopal University</b> , BTech in Computer Science and Engineering (CSE) <ul style="list-style-type: none"><li>• CGPA: 8.04</li></ul>	July 2026
<b>Navjeevan Science School, Sikar</b> <ul style="list-style-type: none"><li>• Percentage: 88.00%</li></ul>	July 2020
<b>K.V.M Pubic School, Sikar</b> <ul style="list-style-type: none"><li>• Precentage: 84.83%</li></ul>	August 2018

## Technical Skills

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**Programming Languages and Databases:** C++, Python, SQL, MySQL, Postgresql

**Tools & Platforms:** SQL Server Management Studio (SSMS), Power Bi, Excel, GitHub, VS Code, jupyter NoteBook

**Concepts:** Data Analysis, Building & fine-tuning LLMs, Data Structures, Algorithms, statistics, Aptitude and Reasoning

## Projects

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**Machine Learning Model for Customer Churn Analysis** [\[code\]](#) | Power BI, SQL, Random Forest, EDA

- Designed an end-to-end churn prediction pipeline by cleaning and transforming raw data using SQL in SSMS, ensuring accuracy and reliability.
- Built an interactive Power BI dashboard to visualize upto 5 key metrics like churn rate, tenure, and payment method, enabling data-driven decision-making.
- Developed a Random Forest model to predict customer churn, empowering businesses to take proactive retention measures and reduce churn risk with ~92% accuracy.

**AI-Powered Data Analysis using Ollama, PandasAI, and LLaMA 3** [\[code\]](#)

- Developed an offline data analysis tool using Ollama + PandasAI with the LLaMA 3 model, enabling LLM-driven insights without internet dependency.
- Implemented natural language querying to automatically generate insights, summaries, and visualizations, while leveraging PandasAI with Python for efficient data wrangling and cleaning.
- Improved accessibility and efficiency, reducing manual coding effort by ~70%, making data exploration more intuitive for non-technical users.

**Mental Health chat application** [\[code\]](#) | ChromaDb, Groq(LLM), Langchain, Hugging Face

- Built an empathetic mental health chatbot using Groq, Hugging Face embeddings, and ChromaDB, achieving 90% faster semantic search across PDF-based knowledge.
- Implemented a RetrievalQA pipeline with Recursive Text Splitting, boosting contextual response accuracy by ~35% while efficiently managing 1000+ document chunks in persistent ChromaDB.
- Developed a user-friendly interface with Gradio, enabling real-time Q&A and delivering accessible, compassionate support through a clean, interactive platform.

## EXTRA-CURRICULAR & OTHER

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- Worked as a Data Analyst, delivering data-driven insights and scalable solutions to help local businesses optimize growth and decision-making.
- Played badminton at regional level.
- Desgin Lead at Rajasthan club and also managed event with more then 700+ attendees.

## CERTIFICATIONS

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GEN AI Using IBM Watsonx  
Quantitative Research (JPMorgan Chase & Co. by Forage)

April 2025  
March 2025