

# AAYUSH TAMRAKAR

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Proficient in Data Science, Machine Learning, Statistical Analysis, and Predictive Modeling with a background in Computer Science Engineering (AI/ML). Hands-on experience in Python, SQL, Data Preprocessing, Feature Engineering, and Model Building. Strong analytical skills, problem-solving abilities, and a proactive learning mindset, with a focus on deriving actionable insights and optimizing decision-making through data-driven solutions.

## TECHNICAL SKILLS

- |                        |                    |                    |                      |
|------------------------|--------------------|--------------------|----------------------|
| • Power BI Desktop     | • Advanced Excel   | • Tableau          | • Data Modelling     |
| • Power BI Service     | • SQL              | • Machine Learning | • Data Visualization |
| • Predictive Modeling  | • NLP              | • Python           | • Data Cleaning      |
| • Statistical Modeling | • Model Deployment | • MS Office Suite  | • Deep Learning      |

## WORK EXPERIENCE

### AI/ML Trainee | JS Techalliance

02/2025 – Present

- Develop a speech-to-speech conversational bot designed for a call environment that can understand and respond in real-time. Integrate Retrieval-Augmented Generation (RAG) to enhance the quality and relevance of responses by retrieving contextually appropriate information from external or internal knowledge sources.
- Developed sophisticated AI agents capable of managing intricate tasks and conversations with precision, all while ensuring optimal response times.

Tools used: Python, vectordb, SQL, Langgraph, Langchain

### Data Science Intern | Thinkovate

04/2024 – 10/2024

- Developed a high-performance web crawler and scraper, increasing data extraction efficiency by 75% and reducing processing time from 4 hours to 1 hour for 10000 web pages. The system dynamically adapts to user-defined parameters, successfully extracting relevant information from 92% of targeted websites.
- Built a Retrieval-Augmented Generation (RAG) model that improved document analysis accuracy by 40% compared to traditional NLP methods. The model processes and generates insights from an average of 500 pages per minute, with a 95% user satisfaction rate for summary quality and relevance.

Tools used: Python, scrapy, langchain, chromadb, streamlit

### Data Analysis Intern | IBM Skillsbuild Internship (AICTE)

06/2023 – 07/2023

- Developed proficiency in data summarization and visualization, reducing data interpretation time by 30%.
- Implemented correlation and regression models, identifying key factors influencing business metrics with 85% accuracy.
- Created an interactive dashboard using Tableau, increasing stakeholder engagement by 40% and reducing weekly reporting time from 5 hours to 1 hour.

Tools used: MS Excel, Python, Scikit-learn, Tableau

## PROJECTS

### Market Research and use case agent | Python, Gen AI | [Link](#)

- Used crewai library to build a multi agent architecture with the help of local LLM.
- Built a Streamlit front-end that automatically performs market research and generates relevant GenAI use cases based on industry and company inputs.

### Movie Recommender System | NLP | [Link](#)

- Developed a recommender system leveraging contextual similarities for enhanced search functionality.
- Used streamlit for the system frontend.
- Used TMDB Api for poster fetching in the frontend.

### Techwork consultancy project | Python, ML | [Link](#)

- Created a machine learning model which will help the company in determining the salary of newly hired employees using the given data.
- Build different models and evaluate the performance of those and selected the best one.

## EDUCATION

### Bachelor of Technology in Computer Science and Engineering (AIML)

08/2020 – 07/2024

Shri Shankaracharya Technical Campus, Bhilai, C.G

### Master's of Technology in Big Data Analytics

08/2024 – Present

School of Data Science and forecasting (D.A.V.V), Indore

## CERTIFICATIONS

- [HackerRank – SQL basics](#)
- [Machine Learning](#)
- [Data Science](#)