

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

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|------------------------|--------------------|--------------------|----------------------|
| • 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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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	
<ul style="list-style-type: none">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) Shri Shankaracharya Technical Campus, Bhilai, C.G	08/2020 – 07/2024
Master's of Technology in Big Data Analytics School of Data Science and forecasting (D.A.V.V), Indore	08/2024 – Present

CERTIFICATIONS

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