

PRAFFUL AGRAWAL

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EDUCATION

B.Tech in Artificial Intelligence and Data Science,
Madhav Institute of Technology and Science, Gwalior

2022 – 2026
CGPA: 7.2/10.0

Relevant Coursework: Data Structures, Algorithms, Machine Learning, Database Systems, Data Analytics, Statistics

SKILLS

| | |
|-------------------|---|
| Languages | Python, SQL, Java, TypeScript, JavaScript |
| Tools | AWS, Git, Jupyter, MySQL, Power BI |
| Frameworks | Pandas, NumPy, Scikit-learn, PyTorch, LangChain, FastAPI |
| AI/ML | Machine Learning, EDA, Data Visualization, Multimodal AI, RAG |

EXPERIENCE

Data Science Intern
Young Thames LLP

Apr 2025 – Jul 2025

- Developed ML models and data pipelines in Google Colab, including CNN OCR for PDF text extraction, achieving 90% accuracy in data processing.
- Analyzed CRM and public datasets, creating JSON outputs and visualizations to drive data-informed decisions for the Gen-goodwill project.
- Fine-tuned language models for chatbot automation and designed scalable system architectures with API integrations for AI-driven projects.

PROJECTS

Telecom Churn Prediction ([GitHub](#))

Oct 2024 – Nov 2024

- Built a machine learning pipeline to predict telecom customer churn with 88.7% ROC-AUC using Python and scikit-learn.
- Created an interactive Power BI dashboard to visualize churn risks and key predictors for business insights.

Image-Based QA with RAG ([GitHub](#))

Dec 2024 – Jan 2025

- Developed a generative AI system for image-based Q&A, achieving 80% answer accuracy using Python, Tesseract OCR, and LangChain.
- Optimized retrieval with RAG and MiniLM embeddings through exploratory data analysis.

Multimodal Language Assistant ([GitHub](#))

Jan 2025 – Mar 2025

- Built an AI assistant for language practice, achieving 85% feedback relevance using Python, Whisper, and GROQ API.
- Designed a Gradio interface for audio/text input, validated through quantitative analysis.

ACHIEVEMENTS

- Management Head**, Science Club, MITS 2024–2025
- Data Analytics with Python**, NPTEL Certified 2025
- LeetCode/GeeksForGeeks**, 300+ questions solved, demonstrating strong problem-solving skills