

SAPNA GIRME

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OBJECTIVE

Postgraduate in Data Science & Big Data Analytics with hands-on experience in AI/ML, data analysis, and visualization, looking to apply technical expertise and analytical thinking to real-world projects that drive business impact.

EDUCATION

M.Sc. in Data Science & Big Data Analytics,
B.K. Birla College of Arts, Science & Commerce
CGPA: 9.81

Aug 2023 – Jul 2025

B.Sc. in Information Technology,
S K Somaiya College of Science, Commerce & Arts
CGPA: 9.58

Aug 2020 – Apr 2023

SKILLS

Programming Languages

Python, SQL, DAX

Data Analysis & Visualization

Power BI, Pandas, NumPy, Tableau,
Microsoft Excel, Matplotlib, Seaborn

AI/ML & Generative AI Tools

LangChain, HuggingFace
Transformers, RAG, LLMs

Machine & Deep Learning

Scikit-learn, TensorFlow, Keras,
Classification, Clustering, Neural
Networks

Tools & Platforms

Jupyter Notebook, Google Colab, Git,
GitHub, Jira

Soft Skills

Problem-Solving, Communication,
Teamwork, Presentation Skills

PROFESSIONAL EXPERIENCE

Artificial Intelligence Extern, Smart Internz

Mar 2024 – May 2024 | Remote

- Gained hands-on experience in ML, DL, and data analytics.
- Built models and algorithms using Python, Pandas, and Scikit-learn.
- Worked on pre-processing, feature engineering, and model tuning.
- Used Git and Jira for version control and project collaboration.

PROJECTS

Verdict AI: AI Powered Legal Intelligence Platform

- **Technologies Used:** Python, LangChain, ChromaDB, FAISS, Hugging Face Transformers, TinyLLaMA (GGUF), Rotary-IndicTrans2-en-indic-dist-200M, Flask
- Developed a multi-module legal AI platform integrating a RAG-based LLM chatbot, document summarizer, case recommender, and multilingual translator. Used TinyLLaMA with LangChain and ChromaDB for legal queries, facebook/bart-large-cnn for summarization, SentenceTransformers + FAISS for judgment recommendations, and Rotary-IndicTrans2 for translation across seven Indian languages.

Eye Disease Detection Using Deep Learning

- **Technologies Used:** Python, TensorFlow, Keras, OpenCV, Flask
- Developed a CNN model to classify eye images into cataract, diabetic retinopathy, glaucoma, and normal categories. Achieved 85% accuracy and deployed the model using Flask for real-time disease detection through webcam input.

Face Mask Detection with Alarm

- **Technologies Used:** Python, OpenCV, Haar Cascade, CNN, Pygame, Flask
- Built a face mask detection system that uses Haar Cascade for face detection and CNN for mask classification. Achieved 96% accuracy in identifying mask usage and integrated Pygame mixer for an alarm alert when no mask is detected. The system captures live images, processes them, and alerts individuals when mask violations occur.

CERTIFICATES

- Practical Approach to Data Mining (TCS)
- Deep Learning (L&T)
- Getting Started with Enterprise- grade AI (IBM) 
- Data Analytics Essentials (Cisco) 
- Machine Learning (L&T)
- Enterprise Data Science in Practice (IBM) 
- Data Analysis Using Python (IBM) 
- Python for Data Science & AI (Coursera) 

ACHIEVEMENTS

Secured First Rank in the 1st and 2nd year of B.Sc. IT.

Secured Second Rank overall in B.Sc. IT across all 3 years.