



## CONTACT

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## EDUCATION

2021-2025

MADHAV INSTITUTE OF  
TECHNOLOGY AND SCIENCE

- B.Tech in **Mathematics and Computing**
- CGPA: 7.8 (till 7<sup>th</sup> Semester)

## LANGUAGES

- English (Fluent)
- Hindi (Fluent)

## SKILLS

- **Languages:** Python, C++
- **ML Frameworks:** NumPy, Tensorflow(CNN, RNN, LSTMs), Scikit-Learn, AutoGluon, Optuna, Ollama, Langchain, CometML (for LLM Evaluation), NLTK, spaCy, YOLO
- **Database and Related Frameworks:** SQLite, MySQL, MongoDB
- **Data Scrapping:** Selenium, BeautifulSoup, Langchain
- **Data Analysis:** Seaborn, Matplotlib, Plotly, PowerBI, Pandas
- **Other:** Google Cloud Platform, Git, GitLab, SSH, OpenCV, Selenium, BeautifulSoup
- **Low-code/No-code:** Bubble.io

# RAAGGEE SINGH

## DATA SCIENCE AND MACHINE LEARNING

## WORK EXPERIENCE

- **Nebula Magic** SEPT 2024 - PRESENT  
Associate
  - Working with a U.S.-based client to build an AI/ML-driven platform for astrophotographic image manipulation.
  - Developed key features such as photometric color correction using Python and external APIs, and hot pixel detection/removal using CNNs. Utilized FITS, OpenCV for image loading.
  - Created a full image scraping pipeline (using beautiful soup and selenium) from collecting training data to uploading it to the server, which is used to train GANs.
  - Trained a custom ESRGAN for image enhancement. Used Hubble Telescope Dataset for it.
  - Implemented image compression and upload functionality using JavaScript to enhance performance and speed.
  - The platform is actively being used by 100+ users daily.
- **StoreFox.ai, Bangalore, India** FEB 2025. - MAR 2025  
ML Intern
  - Built a validation and evaluation pipeline for LLMs in translation, transcription, tagging, and classification across models like Gemini, ChatGPT (Azure), Mistral, Claude & Gemini. Benchmarked models using CometML, tracking metrics like accuracy, precision, recall, and F1-score across varied prompts.
  - Developed an "LLM-as-a-judge" framework to automate prompt output comparisons and tag quality evaluation, streamlining QA. Supported data extraction from MongoDB, test reporting, and QA dataset creation.
- **Bioworld Merchandising Inc., Texas, USA** May 2024 - Sept 2024  
AI Intern
  - Streamlined and automated the creation of unlicensed designs, improving workflow speed and consistency.
  - Integrated APIs from various image generation platforms (such as Midjourney, Dall-e) to enable scalable, automated design processes.
  - Utilized Python to develop automation tools and support integration tasks.
  - Collaborated with stakeholders to communicate technical decisions and their business impact.

## PROJECTS

- **RAG Based Document Q&A:**
  - Created a local RAG based document Q&A. User can upload as many document they want and using local LLMs we can get the Answer.
  - Utilized Streamlit for the interface and langchain for using **Ollama** and creating **RAG** for efficient document loading. Used **FAISS** for context awareness.
- **LinkedIn Job Matcher**
  - Created a Resume matcher, which can be utilized to find the matching jobs to your resume.
  - User upload their resume and the resume is stored inside a vector database (**FAISS**) with embeddings. Used LinkedIn-MCP Server, for finding the relevant jobs.
  - Utilized Ollama for matching the jobs and prompting the **MCP(Model Context Protocol)** Server.