Manan Sharma

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LinkedIn Profile

GitHub Profile

Education

- **Indian Institute of Information Technology, Vadodara** — Gandhinagar, Gujarat
  Bachelor of Technology in Computer Science and Engineering: GPA: 8.46/10 — Dec. 2022 – Present

- **MB International School** — Kota, Rajasthan
  12th Graduate: Percentage: 93.4% — April 2020 - June 2022

Projects

- **AICTE Portal**
  Retrieval-Augmented Generation, Numpy, NLP, LangChain, HuggingFace
  - Designed and developed a RAG application that automates the application process by improving efficiency and response accuracy through retrieval of relevant information from documents
  - Utilizing advanced NLP techniques and leveraging pre-trained models, the RAG application significantly improves the efficiency and reliability of information retrieval and synthesis processes

- **Video Dubbing Application**
  HTML, CSS, Django, PyTube, AssemblyAI, gTTS(Google Text-To-Speech), FFmpeg, Pyrebase
  - Developed a web application to dub videos from one language to multiple regional languages, enhancing accessibility and inclusivity for viewers. Utilized Django for backend development, PyTube for downloading YouTube videos, AssemblyAI for generating transcripts, gTTS for text-to-speech conversion, and FFmpeg for audio-video synchronization.
  - Created as part of Reckon 5.0 hackathon, the project involved seamless integration of multiple components, showcasing skills in full-stack development, natural language processing, and multimedia processing.

- **Neural Networks**
  Linear Algebra, C, Standard Libraries, Neural Networks
  - Developed a neural network project in C, implementing forward propagation and backpropagation
  - Optimized network performance using gradient descent, learning rate adjustment and weight and bias optimisation. Tested on logic gates and adders

Technical Skills

- **Languages**: Python, SQL, Java, C++/C, HTML/CSS.
- **Machine Learning Libraries**: Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn
- **Tools**: Power BI, Tableau, MySQL, StreamLit, BeautifulSoup, Selenium, PuLP
- **Academic Courses**: OOPS, DBMS, Software Engineering, Data Structures.
- **Languages/Frameworks**: TensorFlow, PyTorch, Keras, Django, Flask, Excel.
- **Artificial Intelligence**: NLP, Transformers, GPT, LLM, LangChain

Achievements

- **SIH 2023 Finalist**: Selected for Smart India Hackathon 2023 finals amongst 100 other teams for our problem statement
- **Reckon 5.0 Finalist**: Selected for Reckon 5.0 (2024) finals

Roles and Responsibilities

- **ML/AI Volunteer, IIIT Vadodara**: GDSC IIITV AY 2023-2024