Siddhartha Srivastava

Roll No.: 2511AI34
M.Tech
Artificial Intelligence
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech (AI)	Indian Institute of Technology, Patna	Pursuing	2025-2027
B.Tech (CSE)	Bundelkhand University, Jhansi	7.67	2021-2025

EXPERIENCE

- **Front-End Intern, Salesqueen Software Solutions (Remote)** *July 2023 - Oct 2023*
  - Assisted in developing and maintaining web pages using HTML, CSS, and JavaScript.
  - Collaborated with the team to integrate basic backend APIs for data display.
  - Gained hands-on experience in improving page layouts and making user-friendly designs.

PROJECTS

- **RAG Based AI Teaching Assistant** — Developed an AI-powered teaching assistant using Retrieval-Augmented Generation (RAG) to process long educational videos. Implemented Whisper for video transcription, chunked data with metadata, and generated semantic embeddings for efficient retrieval. Built a query engine to fetch top-matching content using vector similarity, enabling accurate and context-aware responses to student queries.

- **Crop Disease Detection System** — Developed a Django-based web application using a TensorFlow CNN model to detect diseases in multiple crops from image inputs. Included prediction history storage and solution recommendation features to assist farmers in disease management.

- **Movie Recommendation System using Machine Learning** — Created a content-based movie recommendation system using Python, Pandas, and Scikit-learn to suggest 5 similar movies based on user selection. Implemented cosine similarity for efficient recommendations.

- **Video Conferencing Web App** — A Group Video Calling Application built using the Agora Web SDK with a Django backend. Implemented real-time audio and video communication features along with a room management system. Integrated responsive front-end for seamless user interaction and ensured smooth connectivity across multiple participants.

KEY COURSES TAKEN

Data Structures, Algorithms, DBMS, Machine Learning, Deep Learning, Artificial Intelligence, Operating System

TECHNICAL SKILLS

- **Programming:** C, C++, JavaScript, Python, SQL
- **Tools:** Jupyter Notebook, Google Colab, Git
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Keras
- **Web Development:** HTML, CSS, JavaScript, Django

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant** Indian Institute of Technology, Patna *August 2025 - Present*

ACHIEVEMENTS

- GATE 2025 Qualified - Computer Science and Engineering
- GATE 2024 Qualified - Computer Science and Engineering, Data Science & Artificial Intelligence
- 5 Star Coder On Hacker Rank
- Solved 150+ Questions on different platforms like Leetcode, GFG and Hackerrank

CERTIFICATIONS

- Coursera Certification on Machine Learning by Andrew Ng
- Udemy Certification on Deep Learning with TensorFlow and Keras