Adarsh Agarwal

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EDUCATION

•**Manipal University Jaipur**	*2021-25*
Bachelor of Technology in Data Science and Engineering	8.8
•**Delhi Public School, Siliguri**	*2021*
Central Board of Secondary Education	90
•**Don Bosco School, Siliguri**	*2019*
Indian Certificate of Secondary Education	95.2

PROJECTS

•**Sign Language Translator** Source Code

- Devised a deep learning model to translate Indian Sign Language to speech, aiding individuals with speech impairments. Achieved an 85% accuracy in classifying 10 signs.
- Implemented the model in a web application using ReactJS and Flask, enabling real-time sign language translation with a latency of under 2 seconds through a simple user interface.

•**Waste Classification** Source Code

- Engineered a machine learning model for automated waste classification, enhancing sorting efficiency and promoting eco-friendly waste management. The model was trained on more than 4000 images.
- Integrated the model's results into applications, enabling real-time classification of waste items with 90% accuracy, and designed intuitive interfaces to simulate seamless user interactions.

•**Smart AI Assistant** Source Code

- Built an AI-driven Streamlit app that generated concise summaries for over 500 YouTube videos, analyzed 1,000+ PDF pages, and facilitated chatbot interactions using Google Gemini and LangChain.
- Implemented transcript extraction, vector search, and content generation features, reducing manual content review time by 40% and improving information retrieval accuracy by 85% with FAISS, Google GenAI, and PyPDF2.

EXPERIENCE

•**HealthKart**   *May 2024 – Jul 2024*

Software Development Intern

- Developed an OCR-based feature for extracting nutritional data from food images, automating data capture for over 1,000 food labels and cutting manual entry time by 70%.
- Built the feature into the company's mobile application using Flutter, with a Python-based backend for data processing and storage.
- Integrated a comprehensive healthiness prediction feature, utilizing company food label data to provide users with personalized dietary insights, resulting in a 20% boost in user engagement with the app's nutritional tools.

•**Acciojob**   *Oct 2022 – Feb 2023*

Teaching Assistant

- Led live Discord sessions on Java programming, assisting over 100 students monthly by addressing more than 200 queries and simplifying complex concepts.
- Conducted Java skills interviews, carefully evaluating candidates and selecting the top 20% for advanced DataStructures and Algorithms training, resulting in higher retention rates and positive feedback for thoroughness and clarity in the selection process.

SKILLS

Languages: C/C++, Java, Javascript, HTML+CSS, Python
Libraries : Tensorflow,openCV, ReactJs
Web Dev Tools: Nodejs, VScode, Git, Github
Frameworks: ExpressJs
Cloud/Databases:MongoDb, Relational Database(mySql)
Areas of Interest: Web Design and Development, Backend Development, Machine and Deep Learning.