Devanshu Sinha

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Academic Qualifications

Year	Degree/Certificate	Institute	CGPA/%
2021 - 2025	Bachelors of Technology in Computer Science and Engineering (Spec. Big Data)	SRM Institute of Science and Technology, NCR Campus	8.85/10
2021	Central Board of Secondary Education - XII	Mount Carmel School, Dwarka Delhi	90.2%
2019	Central Board of Secondary Education - X	Mount Carmel School, Dwarka Delhi	90.4%

AWARDS & ACHIEVEMENTS

- **Finalist** in *AWS DeepRacer Student League – India 2022* **(National Rank 8 out of 1600+)**
- **Seventh** Position in *CBSE-IBM AI Sewa National Hackathon*
- **Finalists** in *International IBM EdTech Challenge*
- Qubit by Qubit's Introduction to Quantum Computing **Scholarship** Recipient

Work Experience

- **Junior ML Engineer, Omdena Local Chapter** (*December 2022- January 2023*)
    - Worked in two local chapters - Kenya and Paris Chapter
    - Collaborated with a team of 50 Machine Learning engineers to develop tools to analyze and understand the green area change in Nairobi and develop a conversational chatbot for the Elderly and Disabled.
    - Task manager for fine-tuning the NLP conversation model
    - Task co-lead for extracting satellite data and training a time series model.
- **Project Intern, IBM** (*December 2020*)
    - Internship with IBM iX engineers from Sacramento, US in designing and scaling AI systems
    - Created functional idea flow and prototype within 2 weeks.
    - The prototype was showcased to the Central Board of Secondary Education Head and IBM India Head.

Key Projects

- **Conversational AI Chatbot for the Elderly (Omdena) (link)**
    - Virtual caregiver system that extracts the expression of mental and physical health states through dialogue-based human-computer interaction to support tailored treatment for senior persons.
    - Study area: Paris Region
    - Domain: NLP Conversation Modelling and Chatbot Deployment
- **Movie Recommendation System (link)**
    - Built and deployed an end-to-end application using Python, Streamlit to sort through and calculate the most appropriate movie interests of a user using 2-D vector model graphs.
- **Principal Component Analysis (PCA) : Wine Dataset (link)**
    - Processed the wine dataset from scikit-learn and performed PCA for analysis and observation.
    - Performed basic regression to understand the dataset.
- **Extensive Waste Management System (link)**
    - Developed an AI project for the community to solve waste hazards
    - Implemented fully working software and hardware components.
    - Project involved Dataset collection and custom training with heavy pre-processing

Technical Skills

- **Programming Languages:** C, C++ , Python
- **Frameworks:** NumPy, Pandas, Scikit Learn, Matpotlib, Seaborn, OpenCV, Tweepy, NTLK, TextBlob, Tensorflow
- **Developer Tools:** Google Colab, Github, AWS Console, MATLAB
- **Communication:** English, German(novice), Hindi