

MANYA MANGLA

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EDUCATION

Bachelor of Technology New Delhi	<ul style="list-style-type: none">Maharaja Agrasen Institute Of TechnologyBranch: Information Technology	CGPA : 9.141 2022-2026
Senior Secondary 2021	<ul style="list-style-type: none">Dharam Public School , Palwal	Percentage: 95.6
Secondary 2019	<ul style="list-style-type: none">Dharam Public School , Palwal	Percentage: 97.5

SKILLS

Frontend: HTML, CSS, JavaScript, ReactJS, TailwindCS

Backend & APIs: Flask, Node.js, Express.js, REST APIs, Axios

AI & Tools: Sentence-Transformers, PyMuPDF, KeyBERT, NumPy, scikit-learn

Databases & Platforms: MySQL, MongoDB, Firebase, Vercel, Render, Git, GitHub, VS Code, Canva

Languages & Core Skills: C++, JavaScript, Python, Java , Problem Solving, DSA

EXPERIENCE

Summer Intern - Defence Research and Development Organisation (DRDO) [July 2025-Present]
-Developing a robotic arm integrating automation, electronics, and AI. Contributing to the AI and computer vision modules using Python, OpenCV, and TensorFlow — focused on object detection.

Frontend-Development Intern

Cognifyz Technologies [June 2024-July 2024]

- Developed "Haven Craft," a furniture-focused website with seamless CSS and intuitive UI/UX.
- Created a homepage, product listings, and detailed company info pages.
- Integrated user authentication using Firebase API (sign-up/sign-in).
- Implemented input validation for enhanced security.

PROJECTS

HireRank AI – AI-Powered Resume Screening Tool

-Engineered a smart, full-stack web platform that ranks candidate resumes by semantic similarity to job descriptions using cutting-edge NLP models.

- Crafted an intuitive, responsive UI with **React** (Vite), **Tailwind CSS**, and **Axios**, enabling real-time uploads and ranked results.
- Built a robust **Flask** backend leveraging **sentence-transformers** (all-mpnet-base-v2), **KeyBERT**, and **cosine similarity** for accurate, context-aware resume matching.
- Automated resume parsing with **PyMuPDF**, implemented scoring logic using **NumPy** and **scikit-learn**, and deployed seamlessly via **Render** and **Vercel**.

AQI Prediction using Machine Learning

- Built and evaluated ML models to forecast Air Quality Index using historical pollutant data.
- Achieved best performance with **XGBoost** ($R^2 = 0.944$, MAE = 17.95).
- Analyzed feature importance and seasonal trends; identified PM2.5 and PM10 as key contributors.
- Derived insights into pollution patterns to aid environmental forecasting.

ACHIEVEMENTS / CERTIFICATIONS

- Finalist for Internal Hackathon **SIH'2024**
- Deloitte - Cyber Job Simulation Certificate**
- Qualified Round2 of Programming Contest: Website design for Journal.
- Career Essentials in Generative AI** – Microsoft & LinkedIn.
- NPTEL Machine Learning Course - Elite Badge
- Coordinator at **National Service Scheme** MAIT.
- Topped in IT branch in 3rd semester.