

Aditya Singh Mehra

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EDUCATION

Maharaja Agrasen Institute of Technology

Bachelor of Technology (Computer Science Engineering) CGPA 8.4

Rohini, Delhi

2023 – 2027

Bal Bhavan Public School

90.80

New Delhi

EXPERIENCE

Drone Trainee Intern

Jan 2025 – Feb 2025

Drone Aviation

- Conducted hands-on training sessions for educators on drone assembly, flight principles, and STEM-based learning
- Helped teachers understand IoT and communication modules to integrate drone technology into education.
- Collaborated with a team of educators to promote innovation at the intersection of technology and learning.

CERTIFICATIONS

Oracle Cloud Infrastructure 2025 Certified Generative AI Professional

Oct 2025 – Oct 2027

Oracle

- Gained hands-on knowledge of generative AI concepts, LLMs, prompt engineering, and AI services on OCI.
- Developed understanding of deploying, scaling, and managing GenAI solutions in cloud-based environments.

NPTEL Introduction to Machine Learning

Sep 2025

Ministry of Education, Government of India

- Built a strong foundation in supervised and unsupervised learning, regression, classification, and clustering techniques.
- Applied machine learning algorithms to real-world datasets with focus on model performance and evaluation metrics.

PROJECTS

Spam Detection (Text Classification) | Python, Scikit-learn, Pandas, NumPy, NLP (TF-IDF), Matplotlib

- Developed a multilingual spam classification model to detect spam and ham messages in English, French, and German.
- Trained and compared models such as Naive Bayes and Logistic Regression to optimize accuracy and precision.
- Visualized performance metrics and confusion matrix for evaluation and model improvement.

AI Travel Planner Agentic Application | Python, FastAPI, Streamlit, LangGraph, LangChain, Groq API

- Developed an AI-powered travel planning assistant capable of generating personalized multi-day trip itineraries using agentic workflows and LLM-based reasoning.
- Integrated real-time APIs for weather forecasting, place recommendations, currency conversion, and expense calculation to provide dynamic travel insights.
- Built a multi-tool agent architecture using LangGraph and LangChain with tool binding for intelligent decision-making and workflow execution.
- Implemented FastAPI backend endpoints and a Streamlit frontend interface for seamless user interaction and trip generation.

CZAR- Crafting Luxury Spaces | HTML, CSS, JavaScript, React, UI/UX

- Developed a modern, responsive project portfolio website to showcase luxury interior design projects.
- Implemented interactive UI components for an engaging user experience.
- Focused on clean, maintainable code structure and performance optimization.
- Hosted the project online to demonstrate live portfolio functionality.

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML, CSS , C++ , Java

Frameworks: React, TensorFlow , React , Node.js

Developer Tools: Git, VS Code, Jupyter Notebook, npm, Figma, UI/UX

Libraries: Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib , AWS , Cloud