

## Education

**Bachelor of Technology (2022 – 2026)**

Indira Gandhi Delhi Technical  
University for Women

ECE – AI

CGPA: 4.93

**Intermediate (PCM) (2021 – 2022)**

MCL Saraswati Bal Mandir Sr  
Sec School

New Delhi

Score: 75%

**Matriculation (2019 – 2020)**

St Mark's Senior Secondary  
Public School

New Delhi

Score: 76.5%

## Experience

**AI-powered Full-Stack Development Intern**

June 2025 – July 2025

Department of Artificial Intelligence and Data Sciences, IGDTUW, Delhi

- Completed an intensive summer internship on AI-powered Full-Stack Development, combining backend/frontend technologies with AI integration.
- Gained hands-on experience in building intelligent web applications using modern web frameworks and AI-driven features.
- Worked on designing, developing, and deploying end-to-end applications under faculty mentorship.

**Computer Vision and Deep Learning Intern**

June 2024 – July 2024

Center of Excellence – AI, IGDTUW

- Completed an 8-week internship focusing on Computer Vision and Deep Learning applications.
- Built and evaluated a deep learning project: Brain Tumor Segmentation using CNN-based models for medical image analysis.
- Hands-on with image datasets, model training, and segmentation techniques.

**Python and ML Intern**

June 2023 – July 2023

Anveshan Foundation, IGDTUW

- Completed a 7-week internship on Python programming and core ML concepts.
- Developed a machine learning project: Crop Yield Prediction Using ML Algorithms, involving data preprocessing, model selection, and performance evaluation.

## Publications & Projects

**Leveraging AI and Data-Driven Techniques for Solar Power Prediction.**

26 Oct 2025

Research Paper – Accepted for Oral Presentation at AIST 2025

(LINK)

(IGDTUW – International Conference on Artificial Intelligence & Speech Technology)

- Conducted a comparative study on ML & DL models including Random Forest, GRU, and Transformer architectures.
- Achieved improved short-term solar power forecasting accuracy using real-world meteorological datasets.
- Developed a real-time prediction pipeline integrated with weather APIs for energy management applications.

**Travel Diary App**

June 2025 – July 2025

Tech Stack: React.js, Node.js, Express.js, MongoDB

- Designed and developed a full-stack MERN web application that allows users to create, edit, and delete travel logs with location tagging and image uploads.
- Implemented user authentication (JWT), secure routes, and MongoDB Atlas for cloud-based data storage.
- Integrated responsive UI using React Hooks and Material UI for seamless user experience across devices.
- Followed RESTful API design and Git-based version control for modular backend development.

**Solar Power Prediction Web App**

June 2025 – July 2025

Tech Stack: Python, Streamlit, Scikit-learn, Random Forest, Pandas

- Developed a Streamlit-based web application to predict solar power generation using weather and irradiance data.
- Trained a Random Forest regression model achieving high accuracy ( $R^2 \approx 0.99$ ) using historical data from the UCI repository.
- Designed a user-friendly frontend for inputting parameters like temperature, humidity, irradiance, and wind speed, providing instant power output predictions.
- Integrated manual input fallback for real-time prediction; working toward live data integration using Open-Meteo.

## Skills

**Programming & Core CS :** Python | C++ | SQL | MySQL | R | OOPS | DBMS | DSA

**Web Development :** HTML | CSS | JavaScript | React.js | Next.js | Node.js | GraphQL | MongoDB | Azure SQL | Git

**AI & Data Science:** Machine Learning | Deep Learning | Neural Networks | Computer Vision | Predictive Analytics | TensorFlow | Power BI

## Certifications

- Oracle cloud infrastructure 2025 certified ai foundations associate (Certificate)

August 2025 - Sept 2025

- Completed Data Structures and Algorithms in C++ by UDEMY (Certificate)

June 2024 – August 2024