

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

Department of Artificial Intelligence and Data Sciences, IGDTUW, Delhi

June 2025 – July 2025



- 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

Center of Excellence – AI, IGDTUW

June 2024 – July 2024



- 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

Anveshan Foundation, IGDTUW

June 2023 – July 2023



- 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

(LINK)

Research Paper — Accepted for Oral Presentation at AIST 2025

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

August 2025 - Sept 2025

June 2024 – August 2024