

# KARTIKA KANNOJIYA

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## WORK EXPERIENCE

### Indian Institute of Remote Sensing (IIRS) - ISRO

Dehradun (Remote)

Internship

Feb 2025 - Present

- Developing a QGIS plugin for automated classification of satellite imagery using Machine Learning (Random Forest) to identify land cover types (e.g., roads, buildings, water bodies, vegetation).
- Utilizing GDAL, QGIS, and Python to efficiently process multi-band satellite imagery (Red, Green, Blue, Near-Infrared) for classification and change detection.
- Designing a User-Friendly GUI within QGIS to allow easy input of satellite images, model selection, and automated classification output.

## EDUCATION

### B. Tech - Madhav Institute of Technology and Science

Gwalior

Mathematics and Computing with 8.56/10 CGPA

Jun 2025

### Carmel Convent Senior Secondary School

Gwalior

CBSE 12<sup>th</sup> PCM – 83.2%

2020-2021

### St. John Vianney School

Gwalior

CBSE 10<sup>th</sup> – 81.2%

2018-2019

## PROJECT EXPERIENCE

### StudyMate – Full-Stack Ed-Tech Platform | MongoDB, Node.js, Express, and React.JS (MERN)

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- Developed a fully functional ed-tech platform enabling users to create, consume, and rate educational content.
- Implemented JWT-based authentication for secure user login and role-based access control for students and instructors.
- Designed course creation & management features, allowing instructors to create, update, and manage course content.

### Weather Application | HTML, Tailwind CSS, JavaScript, REST API

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- Developed a responsive weather application that retrieves real-time weather data using a REST API.
- Integrated API to provide accurate and up-to-date weather conditions, including forecasts and additional relevant data.
- Designed an intuitive user interface with Tailwind CSS for a seamless user experience.

### Student Rank Predictor | Next.js, TypeScript, Tailwind CSS, Flask, Scikit-learn, Pandas, NumPy

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- Developed Student Rank Predictor, a ML-based web app using Next.js, Flask, and Random Forest to predict NEET ranks from quiz performance.
- Designed a REST API for rank prediction, processing historical quiz data to identify weak areas and suggest improvements.

### Olympics Analysis Dashboard | Power BI, Excel

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- Built a Power BI dashboard analyzing Olympic data (1900-2016), visualizing medal trends, country participation, and India's performance from 40,000+ records.
- Provided insights on athlete performance, medal trends, and infrastructure gaps in Indian sports.

## SKILLS

- **Languages:** C++, Python, JavaScript, SQL, HTML, CSS
- **Front-End Framework:** Tailwind, ReactJS, Redux
- **Back-End Server Side:** Express.js, Node.js
- **DataBase:** MongoDB, MySQL
- **Tools:** GitHub, Postman, Visual Studio, Google Colab, Power BI
- **Coursework:** Data Structures and Algorithms (DSA), OOPs, DBMS, Computer Network

## ACHIEVEMENTS AND CERTIFICATIONS

- Achieved Elite Medal in the NPTEL Cloud Computing course with a score of 73% (2024)
- Qualified **Google CodeJam** (2022), showcasing strong programming skills
- Completed Summer Internship Program in MS Excel (2022)
- Ranked among the top 80 students in the Google Cloud Study Jam (2024)
- Stock Quest, an intra college quiz competition Secured 4th Rank (2022)
- MERN Stack Developer
- Solved 300+ DSA questions on various platforms ([GFG](#) , [LeetCode](#) , [codingninjas](#))

[Certificate](#)

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