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 12th PCM – 83.2%   **2020-2021**

St. John Vianney School   **Gwalior**

CBSE 10th – 81.2%   **2018-2019**

PROJECT EXPERIENCE

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

- 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*   **Explore**

- 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*   **Explore**

- 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.

Ecomzy - ECommerce Platform | *MERN, Redux, Tailwind CSS*   **Explore**

- Developed a full-stack MERN application with Redux, featuring a responsive UI using Tailwind CSS and React.
- Key functionalities include a shopping cart, product reviews, search and pagination, user profiles with order history, Checkout process, etc.

SKILLS

- **Languages:** C++, 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
- **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)   Certificate
- Qualified **Google CodeJam** (2022), showcasing strong programming skills   Certificate
- Completed Summer Internship Program in Microsoft Excel (2022)   Certificate
- Ranked among the top 80 students in the Google Cloud Study Jam (2024)   Certificate
- Stock Quest, an intra college quiz competition Secured 4th Rank (2022)   Certificate
- MERN Stack Developer   Certificate
- Solved 300+ DSA questions on various platforms (GFG , LeetCode , codingninjas)