Kartika Kannojiya

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SUMMARY

Detail-oriented and solutions-driven Computer Science graduate with a strong foundation in data structures, software development, and automation scripting. Experienced in developing Python and JavaScript-based tools to enhance operational efficiency and troubleshoot technical issues. Eager to contribute to innovative projects and grow in a dynamic technical environment.

WORK EXPERIENCE

Internship   Feb '25 — May '25
Indian Institute of Remote Sensing (IIRS) - ISRO Dehradun

- Developing a QGIS plugin for automated classification of satellite imagery using machine learning techniques, primarily Random Forest.
- Utilizing GDAL, QGIS, and Python to process multi-band satellite imagery for classification and change detection workflows.
- Designing a user-friendly graphical user interface within QGIS to facilitate model selection and automate classification output.

SKILLS

- **Programming Languages:** Python, SQL, C++, JavaScript
- **Tools & Frameworks:** REST APIs, Git, Postman
- **Databases**: MySQL, MongoDB
- **Web Development:** Node.js, Express.js, ReactJS, Redux, HTML, CSS, Tailwind
- **Concepts & Coursework:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Database Management Systems (DBMS), Computer Networks, Software Debugging
- **Soft Skills:** Communication, Problem-Solving, Collaboration, Ownership, Proactive Learning

PROJECTS

StudyMate – Full-Stack Ed-Tech Platform (MERN) | Link   Jun '24 — Sep '24
- Developed a comprehensive educational content creation platform using MongoDB, Node.js, Express, and React.
- Implemented JWT authentication, course management features, Cloudinary for media storage, and Razorpay payment integration to enhance user experience.

Student Rank Predictor – ML Web App | Link   Oct '24 — Dec '24
- Built a machine learning web application using Next.js, Flask, and Scikit-learn to predict NEET ranks based on quiz data.
- Designed RESTful APIs and implemented random forest algorithms to deliver accurate rank predictions.

Resume Matcher Web App | Flask, Python, JavaScript, Tailwind CSS, scikit-learn | Link   Jan '24 — Mar '24
- Built a web app to match resumes with job descriptions using TF-IDF and cosine similarity.

Weather Application | Rest APIs Tailwind CSS, JavaScript | Link   Apr '23 — May '23
- Developed a responsive weather application using REST APIs to fetch and display real-time weather data with a clean UI.

CERTIFICATIONS & ACHIEVEMENTS

Elite Medal in Cloud Computing | NPTEL | Dec '24 | certificate
Awarded Elite Medal for outstanding performance in the NPTEL Cloud Computing course.

Qualified Google CodeJam | Google | Aug '22 | certificate
Qualified the prestigious Google CodeJam programming competition.

Top 80 Participant in Google Cloud Study Jam | Google Cloud | Mar '24 | certificate
Ranked among the top 80 participants in the Google Cloud Study Jam event.

MERN Stack Developer Certificate | Nov '24 | certificate
Certified in MERN stack development demonstrating full-stack web application skills.

EDUCATION

B. Tech - Madhav Institute of Technology and Science   Gwalior
Mathematics and Computing with 8.56/10 CGPA   June 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