

Kartik Sharma

Portfolio  Github  LinkedIn  Leetcode  CodeChef 

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EDUCATION

- **Graphic Era Deemed to be University** Uttarakhand, India
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.33 2021 - 2025
Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Cloud Computing, Databases
- **Greenwood Public School** Gurugram, India
Class XII: Percentage: 84%, 2021
- **Greenwood Public School** Gurugram, India
Class X: Percentage: 94%, 2019







SKILLS SUMMARY

- **Languages:** C/C++, Python, HTML5, CSS3, Javascript, SQL, Java
- **Frameworks:** ReactJs, Django
- **Soft Skills:** Decision Making , Task Management
- **Developer Tools:** Git , Google Cloud Platform, MongoDB , Postman

ACADEMIC PROJECTS

- **SkyVault**  | AWS Cloud, S3, ReactJs, NodeJs, MongoDB May 2025
 - : Designed a scalable MERN-stack application integrating AWS S3 for efficient file storage and retrieval, supporting upload, download, and delete operations up to 10MB per file.
 - : Architected modular backend with Express.js and connected MongoDB Atlas for user metadata, achieving 99.7% uptime during testing across concurrent sessions.
 - : Secured sensitive feedback submissions and user passwords by implementing bcrypt hashing, JWT-based authentication on AWS S3 and session management across 25+ protected API routes for robust access control.
 - : Enhanced AWS S3 environment stability by pinpointing and resolving key vulnerabilities that triggered application crashes, decreasing crash events by 60% and improving system uptime.
- **Brain Tumor Segmentation using 3D-UNet**  | 3D-UNet, Python, TensorFlow, Keras Dec 2024
 - : Designed and implemented a 3D-UNet model for brain tumor segmentation, achieving a Dice Similarity Coefficient (DSC) of 0.90 and an accuracy of 92% on the BraTS 2023 dataset.
 - : Performed preprocessing on MRI volumes, including normalization, resizing to $128 \times 128 \times 128$, and data augmentation to improve model generalization.
 - : Trained the model with optimized parameters, reducing the loss to 0.1 over 40 epochs and validating results on 20% of the dataset.
- **Vogue Store**  | MERN , HTML , CSS , JavaScript Jan 2024
 - : Deployed a fully responsive and user-friendly e-commerce web application using the MERN stack with online admin support.
 - : Incorporated features such as user authentication , cart , application track and payment gateway.
 - : Integrated MongoDB database to keep track of user/admin profiles and product/category entries.
 - : Used Braintree to track and keep records of payments for both paypal and card payments.

ACHIEVEMENTS

- **Research Paper**  :
 - : Research paper titled “**Image Segmentation Using Neural Networks for Tumor Detection in Medical Imaging**” accepted at the **1st IEEE International Conference on Emerging Technologies Innovation for Sustainability** (2024), Noida, Uttar Pradesh, India. Dec 2024
- **Oracle Certified Foundations Associate**  :
 - : Earned Oracle Cloud Infrastructure 2024 Foundations Associate Certificate July 2024
- **Google Cloud Platform Skill Boost**  :
 - : Completed GCP labs under GDSC GEU cloud fascilitator.
 - : Awarded digital GCP Skill Badges for each lab. Dec 2022
- **LeetCode**  **Maximum Rating 1580** :
 - : Solved **380+** problems with a streak of **280+** consecutive days.
- **CodeChef**  | **Maximum Rating 1449** :
 - : Achieved **Global Rank 386/20k+** in Starters 118.
 - : Solved **570+** problems with a streak of 230+.
- **IEEE**  | **Intern** :
 - : Completed 12-week internship on AI and IoT: Innovation and Applications under IEEE – July 2022 July 2022