Kartik Sharma

Portfolio 🔗 Github 🔗 Linkedin 🔗 Leetcode 🔗

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PROFESSIONAL EXPERIENCE

- **Jureli Technologies** 🔗   Gurgaon
  SDE Intern - SchoolOne   *June 2025 - Present*
  - Designed and implemented a **360° feedback survey** system, enabling multi-directional evaluations among students, teachers, staff, and administrators to promote transparency, increased participation by **65%** and reduced feedback turnaround time by **40%**.
  - Developed a dashboard with **AI-tutor functionality** that identified student learning gaps with **88%** accuracy, delivering personalized Learn, Practice, and Quiz modules that boosted average student performance by **25%**.
  - Performed **manual and unit testing** on critical workflows, detecting and resolving high-priority issues, which reduced service outages by **50%** and maintained **99.5%** system uptime during peak usage.
  - Streamlined **user data management** and **ticketing** by working on internal admin dashboard, reducing support resolution time by **35%**.
  - Designing a **flow-based chatbot** adaptable for schools, colleges, and organizations, with integration support for **WhatsApp** and **Facebook Messenger**.
  - **Tech Stacks:** *C#, .NET, Razor Pages, Jenkins, Azure, Docker, SQL, Git, Redis, CI/CD*

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**.
  - Built modular **REST APIs** with Express.js and MongoDB Atlas, adhering to coding standards and quality measures, ensuring 99% uptime across concurrent sessions.
  - Secured sensitive submissions with **bcrypt hashing** and **JWT authentication**, strengthening access control and reducing security vulnerabilities by **40%**.
  - Implemented **offset-based pagination** using MongoDB and React to efficiently retrieve user files in chunks, improving application responsiveness and reducing client load time by **35%** for large datasets.
- **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 **97.68%** 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.

ACHIEVEMENTS

- **Research Paper** 🔗
  - Published research paper on **"Image Segmentation Using Neural Networks for Tumor Detection"** at **IEEE ICETIS 2024**, Noida, India.
- **LeetCode** 🔗
  - Maximum Rating: **1899**, **Knight**.
- **Google Cloud Platform Skill Boost** 🔗
  - Completed GCP labs on compute, storage, networking, and security, and received **GCP Skill Badges**.   Dec 2022
- **Demonstrated learning agility and enthusiasm through personal projects**

TECHNICAL KNOWLEDGE

- **Languages:** C/C++, C#, Python, HTML5, CSS3, Javascript, SQL, Java
- **Frameworks:** ReactJs, Django, .NET
- **Cloud/DevOps:** GCP, Docker, Jenkins, Azure, Git, Postman
- **Databases:** MySQL, MongoDB, Redis
- **Soft Skills:** Critical thinking, Problem-solving, Communication, Collaborative teamwork, Adaptability

EDUCATION

- **Graphic Era Deemed to be University, Dehradun**   Uttarakhand, India
  Bachelor of Technology - Computer Science and Engineering;   ***CGPA: 8.33/10.00***   *2021 - 2025*
  Relevant Courses : Data Structure and Algorithms , OS , OOPS , DBMS , Computer Networks

- **GreenWood Public School**   Gurgaon, India
  Class XII *:- Percentage : 84.4%* ***Class X:-*** *Percentage : 94%*   *2019-2021*