Karan Kumar Singh

Data Scientist (Fresher)

+91 **6354617054** | skarankumar690@gmail.com

Click to open links – in @karankumar0402 | @KaranKumar0402 | **Digital CV**

Data Scientist with expertise in **Machine Learning**, **Deep Learning**, and **Data Analysis**, currently pursuing a **B.Tech in Information Technology** at Parul University. I've developed impactful projects like a **Medical Image Analysis** system and an **Amazon Web Scraping** tool. As the **AI/ML lead** for an award-winning project at **Vadodara Hackathon 4.0**, I secured both victory and a **startup incubation offer**, reflecting my ability to innovate and lead. I'm eager to bring my skills and entrepreneurial drive to data science roles.

EDUCATION

- **Bachelor of Technology – Parul University**
  Information Technology
  CGPA - 7.48
  Member of Coder's Den (Prestigious Competitive Coding Club of University)
- **Senior Secondary Education – Kendriya Vidyalaya**
  Class XII (CBSE): Science (Physics, Chemistry and Mathematics)
  Percentage – 79.4%
- **Higher Secondary Education – Kendriya Vidyalaya**
  Class X (CBSE)
  Percentage – 88.6%

SKILLS

- Programming – **Python** | Java | **C++**
- Databases – **MySQL**| **MongoDB**
- Libraries/Frameworks – **NumPy | Pandas | Sci-Kit Learn | Matplotlib** | Seabron | Plotly | Tensorflow
- Development Frameworks – **Django | Flask | Streamlit**
- Developer Tools – **Anaconda (Miniconda)** | AWS | Git
- Concepts – **Data Analysis | Machine Learning | OOP | Data Visualization | Problem Solving | Image Processing | Web Scraping**

PROJECTS

- **Medical Image Analysis**
  - **Developed a comprehensive medical image analysis system** integrating multiple deep learning models for tumour, fracture, and cancer detection across various organ images (e.g., spine CT, brain MRI, chest X-rays, breast mammograms, bowel CT scans).
  - **Implemented YOLOv5 object detection** to accurately identify medical conditions and utilized advanced image processing techniques to convert DICOM (.dcm) images to annotated PNG/JPG formats for improved visualization.
- **Amazon Web Scraper**
  - **Created an Amazon Web Scraping system** that extracts comprehensive product listings and details from any provided Amazon shopping URL.
  - **Utilized Beautiful Soup library** to efficiently parse web data and export results into a structured CSV file for further analysis.

HACKATHON

- **Vadodara Hackathon 4.0 Winner**
  DMeter by **Team NcoderX – AI/ML Lead**
  - Led the development of a **real-time crop monitoring system** for farmers, incorporating AI-driven features such as **crop recommendation**, **livestock monitoring**, and **plant disease detection**.
  - **Managed key AI/ML components**, ensuring accurate predictions and real-time updates on soil, crop, and moisture levels, contributing to the project's success.
  - **Secured a prize reward and funding offer** to incubate the startup, demonstrating the project's potential and innovative impact.