D Harish Kumaar

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Skills

Programming Languages: C/C++, Java, Python, HTML, CSS, SQL

Frameworks and Technologies : Pytorch, Tensorfow, Tkinter, OpenCV, MATLAB

Databases and Tools: MySQL, MongoDB, PostgreSQL, Git

Education

VIT Bhopal Nov 2022 - Jun 2026

B. Tech in Computer Science and Engineering Specialization in AIML ***CGPA: 9.23/10***

Relevant Coursework: Object Oriented Programming, Database Management Systems, Discrete Mathematics, Data Structures and Algorithms, Operating Systems, Computer Networks, Applied Machine Learning, Data Mining and Warehousing, Advance Data Structures and Algorithms, Information Retrieval, Image Processing, Reinforcement Learning, Artificial Neural Network, Deep Learning.

Standard Public School

High School Education (XIIth) ***PERCENTAGE: 95%***

Relevant Coursework: Physics, Chemistry, Mathematics, Computer Science, English(Core), Physical Education

Standard Public School

Secondary Education (Xth) ***PERCENTAGE: 91%***

Relevant Coursework: Physics, Chemistry, Mathematics, Information Technology, Social Studies

Project Work

- **Plan-IT (ongoing):**
  - **Developing a web application as well as a mobile application** which connects and form community of people going to certain events, where organizers can announce information, select venue, interact with their audience and post images of the event.
  - Also, adding **an image processing model** which will recognize faces and provide each user with event-specific images.

- **Credit Card Fraud Detection (2024):**
  - **Developed an Autoencoder-based deep learning model** to detect fraudulent transactions from a dataset of 1 million financial records.
  - **Achieved a training accuracy of 99.99%** and a **test accuracy of 99.97%** in identifying fraudulent activities, ensuring high performance in an unsupervised setting.
  - **Implemented the solution using Python and PyTorch**, optimizing an autoencoder with a custom loss function for improved fraud detection accuracy.
  - **Designed an interactive GUI** using HTML, CSS, and JavaScript, enabling real-time analysis and fraud detection with a response time under 1 second.

- **Smart Attendance System (2023):**
  - **Developed a smart attendance system** to automate attendance tracking for classrooms of up to 100 students using security cameras and face recognition technology.
  - **Achieved a face recognition accuracy of 95%**, optimizing the system with Python and machine learning algorithms.
  - **Integrated a MySQL database** to manage records for over 1,000 students, ensuring seamless data storage and retrieval.
  - **Designed and implemented a GUI** using Python's Tkinter library, providing an intuitive interface for administrators, with a system response time of under 2 seconds per recognition task.

Certifications

- IBM DevOps and Software Engineering
- Privacy and Security in online social media on NPTEL
- HTML, CSS, And JavaScript for Web Developers on Coursera
- Python Essentials on VITyarthi

Awards and Certificates

- Reliance Foundation Undergraduate Scholar