D Harish Kumaar

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Education

**VIT Bhopal University, Bhopal	GPA: 8.99**	October 2022 - Present
Bachelor of Technology in Computer Science and Engineering Specialization in AI and ML	
**Standard Public School, Indore	Percentage: 95%**	2021 - 2022
12th (CBSE)	
**Standard Public School, Indore	Percentage: 91%**	2019 - 2020
10th (CBSE)	

Technical Skills

Languages: Java, Python, SQL, JavaScript, HTML/CSS
Frameworks and Libraries: PyTorch, TensorFlow, OpenCV, Pandas, NumPy, Matplotlib, React, Node.js, MongoDB
Developer Tools: Git, GitHub, VS Code, Visual Studio, AWS(basics)

Projects

Credit Card Fraud Detection | Python, PyTorch, Autoencoder, Scikit-learn — January 2025

- Developed a deep learning fraud detection system to tackle a highly imbalanced dataset of 284,000+ transactions (0.17% fraud), achieving a high-recall F1-Score of 0.82 and a Precision-Recall AUC of 0.77.
- Engineered a data pipeline using Pandas, Scikit-learn, and Imblearn, applying `RobustScaler` to handle financial data outliers and utilizing SMOTE to synthetically increase the minority class in the training set .
- Implemented a hybrid Autoencoder-Classifier in PyTorch, designing the architecture with Dropout layers to learn robust, low-dimensional features that improve model generalization and prevent overfitting.
- Optimized the classification threshold using the Precision-Recall curve, boosting the model's fraud detection precision from 28% to 82% while maintaining a high recall of 81.6%.

GetTogether | MongoDB, Express, ReactJs, NodeJs — October 2024

- Designed and developed a scalable cross-platform application using React.js, Node.js and MongoDB, can support users across web platforms.
- Built 10+ interactive, real-time features including venue selection, live announcements, chat integration, and event media sharing to enhance attendee engagement.
- Integrated secure authentication and role-based access control, enabling differentiated permissions for organizers, participants, and administrators.
- Optimized the front-end architecture for performance and responsiveness, ensuring a smooth user experience across devices and screen sizes.

Smart Attendance | Python, MySQL, OpenCV, Tkinter, Numpy — July 2024

- Developed an AI-based attendance system using security cameras and face recognition to automate tracking for classrooms of up to 100 students.
- Achieved 90% face recognition accuracy by implementing Haar cascade classifiers with OpenCV and optimizing ML algorithms in Python.
- Integrated a MySQL database to manage attendance records for 1,000+ students, ensuring reliable and scalable data handling.
- Built a user-friendly GUI with Tkinter, enabling administrators to process attendance in under 5 seconds per student.

Certifications and Badges

- Completed **Salesforce Developer Certification Program** course from Ethnus.
- Earned **Salesforce Superbadge − Apex Specialist** from Salesforce Trailhead (April 2025). *View Credential*

Extracurriculars and Achievements

- Selected in top 100 students for **Reliance Undergraduate Scholarship** program.
- Selected in the top 0.56% (out of 2,00,000+ participants) in Adobe India Hackathon's coding round.
- Hobbies are Problem Solving, Gaming and Cricket.