

G V RITESH RAMAN

ACADEMIC PROFILE			
Degree/Certificate	Institution	Percentage/CGPA	Year
B-Tech	Mechanical Engineering IIT (BHU), Varanasi	9.06	2026
CBSE (XII)	DAV Public School	96.00	2022
CBSE (X)	DAV Public School	98.60	2020
SKILLS			
Languages and Technologies: C, C++, Python, MySQL, HTML, CSS, Javascript, ReactJs, Bootstrap, NodeJs, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, Tensorflow, Keras, OpenCV.			
Area of Interest: Software Development, Data Structures and Algorithms, Machine Learning, Generative AI, Data Science, Competitive Programming, Business and Finance.			
PROJECTS			
Emotion Detection using CNN		(Nov'23- Dec'23)	
<i>Tech Stack : Python, TensorFlow, Keras, Transfer Learning, ReNet50v2, VGG16, OpenCV, Gradio</i>			
<ul style="list-style-type: none">Addressed class imbalance in the FER-2013 dataset by employing image augmentation and class weights, improving model robustness.Designed and iterated on custom CNN models, including advanced architectures like VGG16 and ResNet50v2, to optimize performance.Achieved a 64% overall accuracy with final model based on ResNet50v2, detailed through precision, recall, F-1 scores and AUC ROC plots across 7 emotion labels.Deployed the model for real-time emotion detection using Gradio and OpenCV. Github			
Automatic License Plate Detection using YOLOv8		(May'24- July'24)	
<i>Tech Stack : Python, Pytesseract, YOLO, Object Detection, Computer Vision</i>			
<ul style="list-style-type: none">Extensively processed XML files of the pre-annotated dataset containing433 images and converted them to YOLO format.Trained the dataset on a YOLOv8 model for 100 epochs and made prediction for the license plate bounding box as well as extracted the text of license plate.Achieved a mean Average Precision (mAP) of 0.90 at IoU=0.5 and 0.53 at IoU=0.5:0.95. Github			
Hotel Booking System		(Apr'24- May'24)	
<i>Tech Stack : ReactJS, NodeJS, MongoDB, Express, Mongoose, Git.</i>			
<ul style="list-style-type: none">Built a Full Stack Hotel Booking Website using the MERN stack. The site is fully responsive and let users book hotel rooms and they must be authenticated to book a room and access the dashboard.Includes an Admin panel where admins can add hotels, manage rooms, and handle user bookings.Incorporated Filtering options to search hotels by various criteria combined with aresponsive design.Github			
POSITION OF RESPONSIBILITY			
Marketing Executive, Kashiyaatra 2023		(Oct'22-Jan'23)	
<ul style="list-style-type: none">Played a pivotal role in securing sponsorships by identifying potential sponsors, preparing compelling sponsorship proposals and negotiating partnership agreements to meet the festival's financial objectives			
Strategy and Outreach Associate, E-Cell, IIT BHU		(June'23- June'24)	
<ul style="list-style-type: none">Recruited, guided and mentored 30+ campus ambassadors under the Campus Executive Internship Program.Launched and executed the Startup Internship Program databasing and coordinating with 150+ startups.Formulated and ideated the National Entrepreneurship Challenge helping colleges all over India to develop E-Cell in their colleges.			
HONOURS AND ACHIEVEMENTS			
<ul style="list-style-type: none">Secured All India Rank 7083 in JEE Advanced 2022 among the 1.6 Lakh shortlisted candidates.Solved 200+ problems on Codeforces, GeeksForGeeks and Leetcode . Handles:gvritesh , gvriteshratluv, gvriii			
EXTRA-CURRICULAR ACTIVITIES			
<ul style="list-style-type: none">Competed amongst 120+ participants in the Intra-Freshers Badminton Tournament of IIT(BHU) 2022-23 and emerged as the Champion.			

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