

Mitali Rawat

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EDUCATION

Vellore Institute of Technology, Bhopal	CGPA: 8.57
<i>B.Tech in Computer Science(Specialisation in Artificial Intelligence and Machine Learning)</i>	<i>Sep. 2022 – Present</i>
Delhi Public School, Indore	Marks: 90%
<i>XII</i>	<i>2022</i>
Delhi Public School, Indore	Marks: 93%
<i>X</i>	<i>2020</i>

EXPERIENCE

Core Member	June 2023 – Jan2025
<i>E-Cell, VITB</i>	<i>Bhopal</i>
<ul style="list-style-type: none">Organized events and managed teams, showcasing leadership and collaboration skills.Built a network with industry professionals and peers, enhancing communication and networking abilities.Solved challenges in event planning and sponsorship acquisition, fostering creativity and adaptability.	

PROJECTS

Heart Disease Diagnosis <i>Python, TensorFlow, Scikit-learn, Pandas, Matplotlib</i>	
<ul style="list-style-type: none">Engineered a binary classification model leveraging Artificial Neural Networks (ANN) to predict heart disease risk.Preprocessed and standardized data using Scikit-learn, splitting it into training and testing sets to ensure reliable evaluation.Incorporated dropout layers to mitigate overfitting, boosting the model's generalization capability.Achieved a test accuracy of 92% and visualized training/validation trends using Matplotlib.Analyzed performance using confusion matrices, achieving actionable insights for healthcare applications.Documented the work in a research paper discussing its impact and applications.	
Plant Disease Detection <i>Python, TensorFlow, Streamlit, Pandas</i>	
<ul style="list-style-type: none">Developed a CNN-based model to detect plant diseases using images and provided recommendations for treatment.Integrated the trained model into a web application using Streamlit for easy user interaction.Deployed data augmentation techniques, enhancing model robustness and training efficiency.Achieved an accuracy of 95% on validation data, ensuring high reliability for disease classification.Delivered real-time treatment recommendations, empowering farmers with actionable solutions.	
Driver Drowsiness Detection System <i>Python, YOLOv5, OpenCV, PyTorch</i>	
<ul style="list-style-type: none">Designed a real-time driver drowsiness detection model using YOLOv5 and OpenCV for facial feature recognition.Trained the model on custom datasets with PyTorch to identify signs of fatigue such as eye closure and yawning.Achieved a detection accuracy of 90% and ensured efficient inference in real-time scenarios.Implemented alert mechanisms, enhancing driver safety in high-risk scenarios.Optimized the model for deployment by reducing size and improving inference speed.	
MindBandhu – Mental Health Chatbot <i>Python, Gemini API, Hugging Face, Flask, NLTK, Transformers, Googletrans</i>	
<ul style="list-style-type: none">Developed an AI-powered mental health chatbot that provides emotionally intelligent responses using Google's Gemini LLM.Integrated emotion detection using a BERT-based Hugging Face model to tailor replies and suggest self-care tips.Implemented multilingual support (default English, switchable by user), enabling culturally inclusive conversations.Designed user-specific context memory for personalized chat flow and used prompt engineering for short, empathetic replies.	

TECHNICAL SKILLS

Languages: Python, C++, Java, SQL
Frameworks: Supervised/Unsupervised Learning, Deep Learning, CNN, NLP, YOLOv5, PyTorch
Tools and Libraries: TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Hugging Face, NLTK, Seaborn, Generative AI, Matplotlib
Soft Skills: Effective Communication, Analytical Thinking, Flexibility, Eagerness to Learn