



Mrityunjay Dwivedi


Bachelor of Technology
Computer Science & Engineering
Rewa Engineering College, Rewa
IIT Indore (8th Semester)

+91-7489467539
dwivedibandhaves@gmail.com
[linkedin.com/in/mrityunjaydwivedi09](https://www.linkedin.com/in/mrityunjaydwivedi09)
github.com/Mrityunjaydwivedi

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	Rewa Engineering College, Rewa	8.62(current)	2021-25
Senior Secondary	Board of Secondary Education MP	93.60	2020-21
Secondary	Board of Secondary Education MP	94.40	2018-19

PROJECTS

- ISIC Malenoma leison cell Classification Model** January 2025 - (current)
under prof Dr.Surya Prakash(IIT Indore)/B.tech Major 
 - CNN-based Malenoma Leison cell Detection System for accurate Skin Cancer Cell identification.
 - Implemented with PyTorch optimizing architecture for accurate, efficient Malenoma Leison cell detection.
 - Preprocessed and Augmented ISIC Dataset(2016) to improve accuracy, and reduce overfitting.
 - Optimized training using hyperparameter tuning, Heat Map and early stopping to enhance performance.
 - Achieved Train Accuracy of 0.9792, Test Accuracy of 0.8469, F1 score Val= 0.7889.
- AI Assistant for Smart Automation** November 2024
Minor Project 
 - AI-powered virtual assistant capable of opening apps, playing music, news, and providing information.
 - Utilized speech recognition and text-to-speech (TTS) for hands-free operation, pyttsx3 for speech output, and Google Generative AI for command analysis.
 - Built using Python, Gemini API, and third-party APIs for data retrieval.
- Video Conferencing Smart Web Application** January 2025 - March 2025
Under prof Dr.Abhishek Shrivastava(IIT Indore)/Service Oriented System 
 - Developed Developed a web-based video conferencing platform using WebRTC for real-time audio/video communication.
 - Implemented features like screen sharing, chat, and meeting scheduling for enhanced collaboration.
 - Integrated a secure authentication system to ensure user privacy Firebase Authentication for secure user login and data protection.
 - Optimized performance for low-latency streaming, improving the overall user experience.
 - Used Socket.io for real-time messaging and interactive user engagement.
 - Technologies Used: WebRTC, Node.js, Express.js, Socket.io, React.js, MongoDB, Firebase Authentication.
- Smart Ferro-Based Solar Irrigation System Integrated with UI** july 2024 - February 2025
Under prof Dr.Puneet and CIAE BHOPAL 
 - Intelligent irrigation system using ferrofluid-based soil moisture sensing for precision watering.
 - Integrated IoT sensors to monitor soil moisture, temperature, and environmental conditions in real time.
 - Used MQTT protocol for real-time data communication between sensors and a cloud-based dashboard.
 - Designed a mobile/web-based interface for remote monitoring and control via Firebase.

TECHNICAL SKILLS

- **Programming:** Java*, Python, C/C++, Data Structures and Algorithms (DSA)
- **Application Languages:** HTML, CSS, Javacript, NodeJS, ExpressJS, SQL, PHP, Latex
- **Databases:** MySQL, PHPMYADMIN
- **Machine Learning Tools:** NumPy, Matplotlib, Tensorflow, Torch

ACHIEVEMENTS

- In Top 5 of IIT Indore Inbound Examination and Interview to Pursuing last semester in it
- Highest SGPA in 5 semesters and two times nine plus CGPA 9.29, 9.46.