# Ishan Pardhi

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#### Education

- Bachelor of Technology in Computer Science and Engineering CGPA: 9.03/10.0 VIT Bhopal University, Bhopal, Madhya Pradesh
  - Relevant Coursework: Data Structures and Algorithms, Database Management Systems,
    Operating Systems, Machine Learning

Percentage: 78.6%

Percentage: 94.6%

- Higher Secondary Certificate (Class XII)
- Secondary School Certificate (Class X)

#### Skills

- Programming Languages: C++, Python, JavaScript
- Technologies/Frameworks: MERN Stack (MongoDB, Express.js, React, Node.js), HTML, CSS
- Machine Learning: TensorFlow, Keras, OpenCV, ResNet-50
- Tools & Platforms: Git, Docker, VS Code, LeetCode, Codeforces
- Core Concepts: Data Structures, Algorithms, System Design, Web Development, OOP

## Competitive Programming

- Solved 500+ algorithmic challenges on platforms like LeetCode, Codeforces, and GeeksforGeeks.
- Proficient in advanced algorithms including Dynamic Programming, Graph Theory, and String Matching (KMP).
- Actively compete in coding contests to sharpen problem-solving and code optimization techniques.

### Projects

#### • Brain Tumor Classification using ResNet-50

- Engineered a deep learning model with ResNet-50 architecture to classify brain tumors from MRI scans, achieving over 90% accuracy.
- Implemented data preprocessing and augmentation on a Kaggle dataset using TensorFlow and Keras.
- Trained the model for 50 epochs utilizing the Adam optimizer and categorical cross-entropy loss function.
- Visualized model performance by plotting accuracy and loss graphs with Matplotlib.

#### • Real-Time Heart Rate Detection from Webcam

- Developed a computer vision system in Python using OpenCV to detect heart rate in real-time from a user's facial video stream.
- Applied digital signal processing techniques to extract photoplethysmographic (PPG) signals from pixel intensity fluctuations.
- Achieved a high degree of accuracy, with a low error margin of  $\pm 5$  BPM when validated against medical-grade devices.

# Achievements

- Demonstrated strong problem-solving abilities by consistently solving complex DSA challenges on competitive programming platforms.
- Received commendation from a cademic supervisors for the technical depth and clear presentation of the Brain Tumor Classification project.