

# Rishi Singh

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## PROFESSIONAL SUMMARY

B.Tech student specializing in Artificial Intelligence and Machine Learning with strong foundations in Python, convolutional neural networks, and system design. Experienced in developing computer vision models and simulation-based optimization systems inspired by real-world industry challenges. Active leader and communicator through Toastmasters International.

## EDUCATION

<b>VIT Bhopal University</b> <i>B.Tech in Computer Science and Engineering (AI/ML) – CGPA: 8.12</i>	2023 – 2027
<b>City Montessori School, Lucknow</b> <i>Class XII (ISC) – 92.5%</i>	2022

## TECHNICAL SKILLS

**Languages:** Python, Java  
**Machine Learning:** CNNs, Image Classification, Model Evaluation  
**Tools:** TensorFlow, OpenCV, Scikit-learn, Pandas, Git  
**Core CS:** Data Structures, Algorithms, OOP, DBMS

## PROJECTS

**Plant Disease Detection using CNN**  
*Python, CNN, Computer Vision*  
Developed a convolutional neural network to classify plant leaf diseases from images for early-stage agricultural diagnosis.  
Applied image preprocessing, feature extraction, and supervised learning to improve model performance.  
Demonstrates practical application of deep learning to real-world computer vision problems.  
**GitHub:** <https://github.com/Rishisingh10/PlantDiseaseCNN/tree/master>

**Flight Crew Scheduling System (Airline Operations)**  
*Python, Pandas, Simulation*  
Built a flight crew scheduling simulation inspired by operational challenges faced by airlines like Indigo during crew shortages and duty-hour disruptions.  
Modeled real-world constraints such as crew roles, base airports, and maximum duty hours to minimize delays and cancellations.  
Demonstrates how data-driven scheduling systems can improve airline operational efficiency and crew utilization.  
**GitHub:** <https://github.com/Rishisingh10/FlightScheduling.git>

## LEADERSHIP & EXPERIENCE

<b>Club Secretary</b> <i>Toastmasters International</i> Elected Club Secretary responsible for club administration, documentation, and meeting coordination. Strengthened leadership, public speaking, and organizational skills through structured Toastmasters programs.	Sep 2025 – Present <i>Bhopal, India</i>
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## CERTIFICATIONS

OCI 2025 Certified Generative AI Professional – Oracle  
MySQL HeatWave Implementation Certified Associate – Oracle