

# ROSHAN KHATAL

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## Education

### Vidyalankar Institute of Technology

*Bachelor of Information Technology*

2022 – 2026

Mumbai, Maharashtra

### Janta Vidyalaya Junior College

*Higher Secondary Education*

2020 – 2022

Khopoli, Maharashtra

## Professional Experience

### FireBirdVR

*XR Simulation Development Intern*

December 2023 – March 2024

Mumbai, India

- Developed expertise in Augmented Reality (AR) and Virtual Reality (VR) technologies
- Collaborated with cross-functional teams to design and implement interactive XR simulation experiences
- Supported development of educational technologies for special needs children

### Kloudstac

*AI Research Intern*

March 2024 – Present

Remote

- Documented comprehensive information on Generative AI technologies and applications
- Conducted in-depth research on Retrieval-Augmented Generation (RAG) models
- Analyzed and explored advanced AI research methodologies and emerging AI technologies

## Projects

### RainVision - Weather Prediction Web App | *Python, Flask, Machine Learning*

2024

- Constructed a Flask web application predicting rainfall probability using machine learning
- Implemented random forest classifier analyzing weather parameters
- Integrated OpenWeather API for real-time forecast data
- Created intuitive interface for geographical coordinate-based predictions

### Wildlife Detection System | *Python, Streamlit, YOLO, Computer Vision*

2024

- Developed real-time wildlife detection system using custom-trained YOLO object detection model
- Built interactive Streamlit interface for webcam-based animal identification
- Integrated Twilio SMS API for instant species detection notifications
- Implemented adaptive detection using PyTorch and OpenCV

### Attendance Mapping Application | *Python, Pandas, Flask*

2023

- Designed web application for comparative analysis of student enrollment and attendance records
- Utilized Pandas for complex data manipulation across multiple file formats
- Implemented robust error tracking and logging mechanisms
- Created dynamic file management system with timestamp-based naming

## Technical Skills

**Programming Languages:** Python, Java, C, SQL, HTML/CSS

**Developer Tools:** VS Code, Jupyter Notebook, Google Colab, Unity, Git

**Technologies:** PostgreSQL, TensorFlow, Machine Learning, Large Language Models

## Achievements & Certifications

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- **RainVision Project:** Copyright filed for weather prediction application
- **Unity Certifications:**
  - Unity Essentials Pathway
  - Unity Junior Programmer
- **Data Mining Certification:** Completed professional certification from MyGreatLearning [View Certificate](#)
- **Extracurricular:** Performed with college dance team