

# HIMANI BHAMMAR

📍 Balangir, Odisha    ✉ himanibhammar@gmail.com    ☎ 7205258181    in himanibhammar    🌐 himanibhammar

## Summary

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AI/ML enthusiast specializing in deep learning and explainability, with expertise in CNNs, PyTorch, and TensorFlow. Passionate about leveraging AI for real-world challenges and improving model interpretability. Skilled in data preprocessing, image analysis, and model optimization for enhanced AI-driven insights.

## Education

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**BTech in Computer Science and Engineering**  
SRM Institute of Science and Technology, Chennai

**GPA: 9.86/10**  
July 2027

## Experience

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### Technical Lead

September 2023 - Present

GitHub Community, SRM

- Strengthened expertise in version control and full-stack development by creating web applications with React.js and Next.js, and collaborated on the Face Detection project applying advanced computer vision techniques.

### Committee Member

August 2023 - Present

Team Envision, SRM

- Spearheaded the development of an AI-based music generator, leveraging machine learning for creative problem-solving. Additionally, developed a hand-gesture-controlled bot, integrating computer vision and real-time processing for interactive control.

### AI/ML Member

August 2024 - Present

Aakash Research Lab, SRM

- Developed CNN-based models for diabetic retinopathy and pneumonia detection, improving image classification accuracy.

## Projects

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### Face Detection

[github.com](#) [🔗](#)

- Developed a real-time face detection system using OpenCV and Haar cascades, enabling efficient recognition and tracking.

### CinemaSentiment

[github.com](#) [🔗](#)

- Visualized trends and developed predictive models for sentiment analysis using NLP techniques.

### Diabetic Retinopathy Detection

[github.com](#) [🔗](#)

- Developed a CNN-based model for diabetic retinopathy detection using custom CNN, achieving 90% accuracy in both training and validation.

### Hand Gesture Bot

[github.com](#) [🔗](#)

- Developed a hand-gesture-controlled bot using OpenCV, MediaPipe, and Raspberry Pi for real-time, contactless robotic control.

## Technologies

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Programming Languages: Python, Java, C++ , JavaScript, MySQL

Developer Tools: VS Code, Jupyter Lab, Google Colab, Git, GitHub, Postman

Web Technologies: React.js, Next.js, Tailwind CSS, HTML, CSS, Django

Data Science & Machine Learning: TensorFlow, Scikit-learn, Keras, PyTorch, OpenCV, Computer Vision