

# VISHNU B RAJ

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Github - [Link](#)  
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Google Scholar - [Link](#)

## WORK EXPERIENCE

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### Junior Research Fellow

2021

CUSAT | Cochin University of Science and Technology

Worked as a research fellow at CUSAT on developing an AI enabled Intelligent device for monitoring underwater acoustics funded by [SONY](#) India.

### CoFounder and Chief Technical Officer

2019 - Present

[Deepflow Technologies Pvt. Ltd](#)

Deepflow Technologies is an AI enabled agri-tech startup which is helping farmers to increase their profits by increasing their yield with the help of AI. The startup is currently funded by NABARD and is incubated at IIM Bengaluru.

## EDUCATION

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### Ph.D - Data Science Dept.

2022 - Present

[IIT Palakkad](#)

### M.Tech - Signal Processing and Embedded Systems

2018 - 2020

KTU | Government College of Engineering Kannur

CGPA - 8.5

## PUBLICATIONS

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[Review on Generative Adversarial Networks](#) - Review on Generative Adversarial Networks - Vishnu B Raj and K. Hareesh, "Review on Generative Adversarial Networks," 2020 International Conference on Communication and Signal Processing (ICCSP), 2020, pp. 0479-0482, doi: 10.1109/ICCSP48568.2020.9182058.

## AWARDS

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[Doctoral Fellowship](#) - IPTIF, IIT Palakkad Technology IHub Foundation, The project aims to aid continuous surveillance, lightweight AI/machine learning models for better energy, computing efficiency, and accuracy.

[Guinness World Record](#) - Most users to take an online programming lesson in 24 hours.

## RESEARCH INTEREST

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Machine Learning, Deep Learning, Explainable AI, Image processing, Computer Vision, Active Learning, Generative AI

## KEY PROJECTS

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### Time Series Price forecast for cash crops to help farmers in strategizing selling time 2022

Deepflow Technologies

An AI algorithm deployed in a mobile app that would forecast the market crop price with ~98% accuracy. This helped farmers in strategizing their selling time and gain profits.

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### In Situ Intelligent Passive Acoustic Sensor Network for Monitoring Marine Habitats 2021

SONY India, CUSAT

An edge AI computing-based enabled system for monitoring the acoustic ambience of ocean and mitigating the effect of noise pollution on marine habitat - [Project Link](#)

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### AI powered patient and employee movement prediction system for hospitals 2021

Deepflow Technologies

This system was developed on AI by collecting millions of patient and employee movement data from hospitals for predicting their movement along the building giving the authorities control over crowds and plan accordingly, especially in highly contagious pandemic situations.(eg., COVID 19)

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### Number-plate recognition for non-helmet bike riders for smart policing 2021

Freelance

This system was developed on deep learning and computer vision for reading the number-plates of non-helmet bike riders which helps in smart policing

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### Realtime object identification for blind people 2019

Freelance

A realtime object detection and identification converting it into audio for blind people using openCV and machine learning.

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## ACHIEVEMENTS

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### Reboot Kerala Hackathon 2020 - 2nd Runner Up

Project Title - Weather and Disaster Prediction System - An AI powered disaster and weather prediction and warning system

### Siemens Make IT Real Hackathon 2019 - 2nd Runner Up

Project Title - Deepvision - An intelligent AI powered augmented vision for the blind