

# George V Jose

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🌐 LinkedIn

## 👤 Profile

Computer Science Engineering graduate with a great passion for Machine Learning and Research. 3 years of experience developing datasets, training, testing and deploying object detection models. Currently researching in Medical AI Safety. Striving to be at the forefront of Machine Learning and converting research ideas to production.

## 🎓 Education

**Masters in Artificial Intelligence and Machine Learning,** Sep 2023 – present  
*The University of Adelaide* Adelaide, Australia

**Bachelor of Engineering and Technology,** Aug 2015 – May 2019  
*Rajagiri School of Engineering and Technology* Cochin, India  
Cumulative GPA: 8.58 /10.0

- Recipient of AICTE Fee Waiver Scheme Scholarship.
- Conducted workshops in Deep Learning
- Experience in working with HPC 🏠 facility

## 📁 Work Experience

**Indian Institute of Technology, Bombay, Project Research Assistant** Mar 2020 – Mar 2023  
Mumbai, India

- Developed DRISHT-E 🏠 using the exported models and temporal tracking for vehicle trajectory.
- Created a novel dataset from drone footage consisting of ~186K frames with over 4M annotations.
- Trained multiple detection models on the dataset and tested them on the test datasets and videos.

**Australian Institute for Machine Learning, Intern** Sep 2024 – Nov 2024  
Adelaide

- Dental landmark identification from 3D dentition point cloud scans
- Precise localization using PointNet++ networks.


## 📁 Projects & Research

**Medical AI Safety** Feb 2025 – present

- Analysing LLaVa-Med vision language model for demography bias in pathology prediction.
- Probing models for patient demography signals.

**Dental Landmark Identification, Australian Institute for Machine Learning** Sep 2024 – Nov 2024

- Identifying dental palatal landmarks with high localisation accuracy
- Achieved a <1mm success detection rate for 91% of test data landmarks

**DRISHT-E**, *Indian Institute of Technology, Bombay* 

Jan 2021 – present

- Video based fully-automated traffic data extractor tool for non-lane-based traffic conditions.
- Includes vehicle detection, trajectory formation & analysis, visualization and trajectory data export.

**Hygroscopic Properties of Atmospheric Aerosols using QCM**,


*Indian Institute of Technology, Madras*

May 2022 – Jul 2022

- Analysis of measured hygroscopicity data from a high-altitude site to understand the impact of atmospheric pollution on monsoon patterns.
- Created simulations of thermodynamic models and visualizations to compare aerosol properties.

## Volunteer & Leadership

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**Open Insulin Foundation**, *Volunteer at Engineering division* 

Aug 2021

- Collaborated on Image Segmentation models for fungal growth experiments.

**Rajagiri School of Engineering and Technology**

Kakkanad, India

- Conducted three workshops for around 60 students on Deep Learning
- Resource person on Python Programming for computer students

**Cognizant**

Cochin Infopark, India

- Team leader Cognizant Digital Maker Challenge (13/2/2019).
- Team leader for Cognizant Maker Hackathon on IoT and Digital Assistance(10/04/2018). Received the First price for the project

## Courses

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**Introduction to Machine Learning with Neural Networks**, *Coursera*

By Prof. Geoffrey Hinton and Andrew Ng

**Deep Learning**, *Udacity*

## Skills

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**Programming**

- Python (NumPy, Tensorflow, Pytorch, pandas, scikit-learn)
- Accelerated ML (Pytorch, ONNX, JAX, Cuda Profiling)
- MLOps (GCP)
- SQL, MATLAB, R

**Language**

Fluent in English and Malayalam  
Beginner in French

## References

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**Dr Nikhil Kurian**, *Post Doctoral Researcher*, Australian Institute for Machine Learning

nikhil.kurian@adelaide.edu.au

**Dr Vinayaraj VS**, *Indian Institute of Technology, Bombay*

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