

# V Indra Kumar

+91-9080745606 • Chennai, 600039 • Email: indra.kumar.v.11@gmail.com  
github.com/Indra24710 • linkedin.com/in/IndraKumar • Portfolio site

## EDUCATION

**AMRITA VISHWA VIDYAPEETHAM, ETTIMADAI**  
*BTech in Computer Science and Engineering (CGPA: 8.95/10)*

Coimbatore, India  
July 2017 - June 2021

## EXPERIENCE

**AMRITA CORE LAB**  
*Research assistant*

Coimbatore, India  
May 2020 - Aug 2020

- Built a program to find the learning curve of students in competitive programming using the error messages generated by their programs.
- Used a CFG based source code similarity detection technique using graph isomorphism to match unlabelled data with labelled(student id) data

**AMRITA SIGMA LAB**  
*Research assistant*

Coimbatore, India  
Feb 2020 - March 2020

- Worked at Sigma Lab on an ISRO funded Deep Learning project where I used algorithms like Yolov3, and Pix2Pix networks for 'Building' and 'Road' feature extraction from satellite images.

## PUBLICATIONS

- Prathilothamai M, V Indra Kumar, Aradhana J, & Anjali Ragupathi (2020, May). **Analysis of Techniques to Handle Class Imbalance in Road Traffic Prediction**. *International Journal of Advanced Science and Technology* [Paper]

## SELECTED PROJECTS

- An application to upscale low quality videos using Deep Learning (Nov 2020)
- A CycleGAN and Pix2Pix network-based application to apply style transfer from PET scan to CT scan images(July 2020)
- **Jatayu**: An AI-based absconded criminal recognition, and violence detection system.(Mar 2020 - August 2020)
- **Guest Lecture Management System** A guest lecture booking app for students to keep track of guest lectures in their local universities and make seat booking for the same. (Dec 2019 - Mar 2020)
- **Amrita Navigator** An offline campus navigation app (July 2019)

## SKILLS

- **Programming Languages:** Python, Java, C, C++, JavaScript
- **Development and Research skills:** Android Development, Web Development(ReactJS, NodeJS), Deep Learning Research
- **Other technologies:** Amazon Web Services ( Serverless-communication, EC2, Cloud-DB,S3), Azure Cloud Services (AzureML, Kubernetes, ACR), Google Cloud Services

## LEADERSHIP AND HONORS

- Awarded a **Merit Scholarship** as a part of Amrita Vidyanidhi program, for securing a high rank in Amrita's entrance exam and maintaining excellent academic standing throughout undergraduate studies. July 2017 - May 2021
- **IEEE Makerfair 2020** Awarded an Honorable mention (**Top 5**) among teams from 30 countries November 2020
- **National Innovation Contest 2020** (National level mentoring round (Ongoing)) (Round 3) November 2020
- **Smart India Hackathon 2020 Runner Up**. National level hackathon with participants from universities across the country August 2020
- **Appdynamics Impactathon finalists**. One among the very few student teams at an Industry level hackathon, where I handled the application side of an environmental data-collection system. March 2019
- **Smart India hackathon 2019 finalists**. Led the only 2nd year team from my university, on a project targeted at solving the issue of lack of job applicants in India's insurance sector. March 2019
- **Class Representative**. July 2018 - Present