

V Indra Kumar

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EDUCATION

AMRITA VISHWA VIDYAPEETHAM, ETTIMADAI
BTech in Computer Science and Engineering (CGPA: 8.94/10)

Coimbatore, India
July 2017 - May 2021

EXPERIENCE

PHOREUIA (startup)
AI Researcher

Kerala, India
Sept 2020 - Present

- Research on Anomaly Detection in footage from CCTV cameras.
- Successfully created and deployed Kubernetes based Deep Learning instances to the Azure Cloud Service.

AMRITA CORE LAB
Research Intern

Coimbatore, India
May 2020 - Present

- Building a program to find the learning curve of students in competitive programming using the error messages generated by their programs.
- Successfully implemented a CFG based source code similarity detection technique using graph isomorphism and Google's BERT based source code similarity detection technique.

AMRITA SIGMA LAB
Research Intern

Coimbatore, India
Jan 2020 - March 2020

- Worked at Sigma Lab on an ISRO funded Deep Learning project where I successfully implemented 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

- A CycleGAN and Pix2Pix network implementation 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)
- A **website recommendation system** based on Google's Bert model for recommending Internet websites which are in adherence with user's previous website interests. (Dec 2019)
- **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)

SKILLS

- **Programming Languages**: Python, Java, C, C++, JavaScript, Scheme
- **Development and Research skills**: Android Development, Web Development (ReactJS, NodeJS), Deep Learning (Tensorflow, Pytorch)
- **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 October 2020
- **National Innovation Contest 2020** (National level mentoring round (Ongoing)) October 2020
- **Smart India Hackathon 2020 Runner Up**. Contested with Project Jatayu (See selected projects section). August 2020
- **Honeywell Hackathon finalists** (Top 10 teams). Built a web app for a blockchain based device maintenance system and DL-based fire detection system for solving the problem of detecting false fire alarms. August 2019
- **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