SEETHAMRAJU PURVAJ

@ spurvaj@gmail.com | seethamraju.purvaj@iiitb.ac.in   ☎ +91-98854 99348   in linkedin.com/in/spurvaj   ○ github.com/seethamraju

EXPERIENCE

Summer Intern
Light Metrics

📅 Summer 2020   📍 Bengaluru, India

- Worked to formulate procedures to reduce computational costs of deep learning models and calibration of deep learning models.
- My work involved going through research papers and trying to implement them to infer the results on baseline models. I learnt about various ways of **filter pruning in CNN**s.
- Tools : **Python, Tensorflow, Keras Surgeon**

Summer Intern
Wipro Technologies

📅 Summer 2019   📍 Bengaluru, India

- Worked in the domain of computer vision applications under Dr Vinod Pathangay.
- Main task involved developing navigation algorithms for UAVs in prebuilt simulated environments.
- Tools : **Python, OpenCV**, Gazebo, ROS, ROSpy

EDUCATION

Integrated Masters   GPA: 3.53/4, Major : 3.72/4
International Institute of Information Technology, Bangalore

📅 Present   📍 Bengaluru

- Currently pursuing 4th year of five year iMtech degree in Computer Science with specializations in AI ML and Theory and Systems for Computing and Data
- **Course Work** : Programming, DBMS, Automata Theory, Operating Systems, Advanced Algorithms, Programming Languages, Software Engineering, Networking, Technical Communication, Discrete Mathematics, Machine Learning, Advanced Visual Recognition, Data Visualization, Software Testing
- **Teaching Assistant** : Programming-II

ADDITIONAL EXPERIENCE

- **Smart India Hackathon** 2020, Finalist. (Software Edition)
- Marketing Management and Presentation course under Prof Sameer Mathur, IIM Lucknow ⚲
- Academic Mentor and core member at Enigma, Robotics club of IIIT Bangalore.
- Deep Learning and Computer Vision courses by **Andrew Ng** in coursera.
- Qualified for round-3 Snackdown 2019.

SKILLS

Software Application Development   Algorithms
Deep Learning   Computer Vision   Python   C++
Java   Tensorflow   C   MySQL   Flask   Git
Linux   Docker   MongoDB   Arduino   PIT

PROJECTS

Research in Graph Theory   Present

- Currently working on a research problem related to burning number in Graphs.

Unsupervised Domain Adaptation   Present

- It involves working on unsupervised domain adaptation in student engagement datasets from two different environments to understand and infer the advantage of USDA over its counterparts.

PLE API Integration ⚲   Aug-Dec 2020

- This is a research project of WSL lab. I worked on developing API gateway framework for communication between frontend and server along with MongoDB storage. This was done on top of various components of Precision Learning Portal.
- **Python , Fast API, MongoDB, PyMongo, Celery, Docker**

VEnEx   July 2020

- A product developed for automating vehicle flow management. My contribution to this project mainly involved giving inputs for detection models , architecture design and developing the server client application along with a database
- **Python , Flask, MySQL, VueJS, Tensorflow, HTML CSS**

Car Sales management ⚲   Nov 2019

- A database app with GUI to facilitate the process of buying cars and transactions between dealers, manufacturers and customers with automatic notification.
- **Java , SWT, SMTP, Hibernate**

Attendance System ⚲   June 2019

- Face detection system handled by a relational database with GUI to ease the process of registering the records for entry and exit with automatic mailing. It is developed on top of the facenet architecture.
- **Python , Flask, MySQL, mysqlconnector, SMTP, Keras**

Banking System Prototype ⚲   April 2020

- A replica of the banking system using C system calls in linux and concepts of operating systems. It is a concurrent server based system written purely in C and uses socket programming for server and client communication.

Medical Word Embeddings ⚲   Autonomous Garbage Collector   Program Similarity ⚲