

# Jyotish P

🌐 [jyotishp.ml](http://jyotishp.ml) | ✉ [me@jyotishp.ml](mailto:me@jyotishp.ml) | ✉ [srisai.poonganam@research.iiit.ac.in](mailto:srisai.poonganam@research.iiit.ac.in) | ☎ +91-990-897-4035

## EDUCATION

### IIIT HYDERABAD

B.TECH. (H) + M.S. BY RESEARCH  
in ECE with specialization in Robotics  
Expected Graduation: 2020

## COURSEWORK

Distributed Systems\* • OS and Algorithms\* • Principles of Information Security • Programming Workshop • Statistical Methods in AI • Computer Vision • Communication Networks • Mobile Robotics • Advances in Robotics

## POSITIONS

### CLUB COORDINATOR, 2017-2018

Photography Club, IIIT Hyderabad

### SYSTEMS ADMINISTRATOR

Felicity 2018

### PHOTOGRAPHER, 2016-2017

Media Team, IIIT Hyderabad

## SKILLS

### PROGRAMMING/SCRIPTING

Regular:

C • C++ • CSS • JS • Matlab • PHP

Python • Shell

Familiar:

Go • Lua • MySQL • Ruby

### LIBRARIES/FRAMEWORKS

Robotics:

Gazebo • OpenCV • ROS • Unreal Engine

Web:

AngularJS • Django • Flask • Laravel

nodeJS • Rails

Machine Learning:

PyTorch • Tensorflow • Torch

### SYSTEMS

Nginx • Apache2 • LDAP • Postfix

Dovecot • Nagios • Icinga • Bind • Slurm

Docker • Libvirt • OpenVZ • Wazuh

Snort • Squid • iptables

### OPERATING SYSTEMS

Linux • Windows

## EXPERIENCE

### ROBOTICS RESEARCH CENTRE | SYSTEMS ADMINISTRATOR

Expected Mar 2018 – Jun 2020 | Hyderabad, IN

- Responsible for the maintenance and deployment of centre's high performance cluster and various services (Monitoring, NS, LDAP, Git, etc) of the centre.

### IIIT HYDERABAD | STUDENT SYSTEMS ADMINISTRATOR

Expected May 2017 – Jun 2020 | Hyderabad, IN

- Responsible for maintenance and deployment of institute-wide infrastructure and services (Squid, LDAP, Email, lists, NS, CAS, PXE, etc), 802.1x over network, routing and firewall configuration serving ~3000 users.
- Automated server configuration for institute's **reverse proxy** server that serves over 150 domains.
- Automated one the **mail server migration** to Google Suite.
- Deployed **transparent proxy** with SSL interception using **SNI parsing**.

## RESEARCH

### PROBABILISTIC NAVIGATION OF ROBOTS

Under the guidance of Prof. K. Madhava Krishna

- Characterize bot and obstacle as noise samples from a distribution.
- Moment matching of distributions in Hilbert space.
- Efficient implementation using reduced sets.

## PROJECTS

### UNROLLING THE SHUTTER

- A Convolutional Neural Network that corrects the distortion caused due to rolling shutter of the camera from a single image.

### NEURAL CAPTIONING

- A combination of a CNN and an LSTM networks that gives a caption for the input image.
- Different versions of the network by tweaking LSTM
  - Traditional LSTM • With attention • With sentinel gate.

### GUEST ACCOUNTS MANAGEMENT

- Portal for automation of adding guests to institute's central LDAP, restrict the logins of these users only to access institute network and automation of account deletion from LDAP.

### PEER TO PEER FILE SYNCER

- A dropbox like file syncer.

### ACCOUNTS MANAGEMENT PORTAL(In Progress)

- A central portal to manage and review account details, logs, etc., for IIIT Hyderabad (inspired from [accounts.google.com](http://accounts.google.com)).