

**PROFESSIONAL EXPERIENCE****Finpulse**

[Mar-Nov 2016]

*Tech Lead, (in a start-up, now defunct)*

- Built fully functional social networking site for financial network from skeleton project using Python-Django
- Technology Stack used are PostgreSQL, Django, HTML5, CSS-Bootstrap, JQuery and Rickshaw.JS for charting/graphs
- Hosted the same on Digital Ocean server on Linux instance with Nginx + Gunicorn
- As a tech lead in team, managed interns during development phase

**Aasaan Jobs***Marketing Executive, Internship*

[May-July 2014]

*'Aasaan Jobs' is portal for white and grey collar jobs*

- Handled and strengthened relations with 10 agencies under contract with Aasaan Jobs
- Oversaw the hiring process of 4 client organizations
- Helped contact and expand client base. Oversaw the updating of customer and client database of the company

**EDUCATION**

Year	Institute	Examination	CPI / %
2011-16	Indian Institute of Technology (IIT), Bombay	B.Tech and M.Tech (EE)	6.58/10
2011	Narayana Junior College, Hyderabad	Class 12	94.90 %
2009	Jawahar Navodaya Vidyalaya (JNV), Vijayapur	Class 10	92.55 %

**ACADEMIC PROJECTS****Decentralized Control of Multiple Quadcopters for Cooperative Tasks**

[Jul 2015- Jun 2016]

*Dual Degree Project , Guide: Prof. Debraj Chakraborty, EE Dept.*

- Designed a communication module using **ZigBee and Arduino** for **reliable data transfer** with no base station
- These were mounted on quadcopters (drone), where each drone acts as node in **dynamic network topology**
- Used these to achieve consensus among nodes which will pave way for self-assembling swarms

**Use of 2D LiDAR Scanner for Possible Indoor 3D Mapping**

[Feb-May, 2015]

*Supervised Research Exposition, Guide: Prof. Debraj Chakraborty, EE Dept.*

- Established **serial communication** between **2D- LiDAR** scanner, PC and **RaspberryPi** using MATLAB and Python
- **Decoded** the SCIP 2.0 two and three character encoded data received and **displayed** it as 2D map

**Face Recognition Using Linear Projection Methods***Project: CS 663 Digital Image Processing, Instructor: Prof. Ajit Rajwade, CS Dept*

- Implemented the algorithms for face recognition popularly known as '*Eigen-faces*' and '*Fisher-faces*'.
- Analysed the efficiency, error rate of '*correlation method*', '*Eigen-faces*' and '*Fisher-face*' for face recognition under different illumination, rotation, facial expressions and accessories using YALE database.

**Use of Gabor Wavelet Transform for Face Recognition***Project: EE 678 Wavelets, Instructor: Prof. V M Gadre, EE Dept*

- Reviewed and demonstrated usage of 'Gabor Wavelets' for Multi-Resolution Analysis (MRA) in day to day applications including face recognition.
- Summarised efficiency, advantages of using MRA for extraction of feature vectors for face recognition.

**Calculation of Depth- Extrapolation from Images***Project: EE 702 Computer Vision, Instructor: Prof. Subhasis Chaudhuri, EE Dept.*

- Implemented various algorithms from research papers to extract depth data from images.
- Demonstrated calculation of '*Depth from Stereo Analysis*' involving solving of correspondence problem. Second algorithm involved calculating '*Depth from Defocus*' method relatively new field.

## TECHNICAL PROFICIENCY

- **Web Development Stack:** PostgreSQL, Python- Django, HTML5, CSS3, Bootstrap, JS (Jquery, Rickshaw-graphs)
- Familiar with setting **Django production server** using Nginx + Gunicorn on Linux instance
- Packages and IDE: MATLAB, Eclipse, Arduino
- Have working knowledge of interfacing sensors with Arduino. Also familiar with UNITY Game Engine

## EXTRA-CURRICULAR ACTIVITIES

### COORDINATOR - TECHNOVATION, Students' Technical Activity Club (STAB)

[Aug 2013-Feb 2014]

- Coordinated with club manager to oversee 6 teams, each containing at least 3 members doing technical projects
- Helped organise multiple events involving talks, brain-storm sessions and technical help sessions
- Oversaw administrative part and periodically reviewed work progress of all the teams involved

### COORDINATOR - HORIZON, MOOD INDIGO

[May 2012-Dec 2012]

- Successfully organized 'Literature Festival' for the very first time in Mood Indigo cultural festival
- As a part of 4 member team, oversaw the execution of 7 events during the span of four days

### OTHERS

- Part of the team which entered the **Limca Book of Records** for the event where 917 people solved **Rubik's Cube** simultaneously
- Fluent in five **languages**- Kannada, Hindi, English, Telugu and Lambani (tribal language).
- Secured **289<sup>th</sup>** rank in **Karnataka CET 2011** out of 1.2 lakh aspirants
- Part of the NVS (Navoday Vidyalay Samiti) **Regional level Kabaddi** team for the year 2006-07