MAJOR PROJECT

- M.Tech Project: An efficient channel estimation scheme in TDD MIMO Systems (May'19 Present) Guide: Prof. Kumar Appaiah, Electrical Engineering, IIT Bombay
 - Implemented Multi Cell MMSE based MIMO precoding in mulitiple antennas systems which used non-orthogonal pilots for channel estimation.
 - Analysed and implemented covariance based channel estimation which uses Bayesian Estimation in single cell system and observed its performance based on rate vs number of antennas.
 - Working on implemention a basic precoder which utilises the information obtained from Kalman estimate in coordinated MIMO systems.

WORK EXPERIENCE & NON ACADEMIC PROJECT

- Interview Management Software | Electrical Engineering Department, IITB (Feb'18 present)
 Guide: Prof. Bikash kumar Dey, Prof. Madhu N Belur, Electrical Engineering, IIT Bombay
 - Roles and responsibilities: Lead role in building online system that made automatic coordination
 across interview committees possible through their interfaces.
 - Online system allowed committees to decide in **real-time** using a mobile/PC-browser about interviews.
 - Built various other **peripheral interfaces** to collect data at different times from students and other sources.
 - This system was used in the last **3** admission sessions with **success**.
- Systems Engineer | Infosys Technology Ltd

(Dec'15 - Jul'17)

- Roles and responsibilities: part of the team which developed an application which automates billing for the customers of the client.
- Wrote SQL queries to fetch data to the module and to develop features using Oracle Peoplesoft ERM tool.

KEY COURSE PROJECTS AND SEMINAR

• Scheduling in 4G LTE	(Jan'18 - Apr'18)
• Simulation of Cellular System in Octave	(Jan'18 - Apr'18)
• Inter cell interference in Multi Cell MIMO systems [M.Tech Seminar]	(Jul'18 - Nov'18)
• Image Dehazing using color attenuation prior and dark channel prior	(Jul'18 - Nov'18)
Basic Image Editor tool in Python	(Jul'18 - Nov'18)
Wavelet based leaders and P leaders in Multi Fractal Analysis	(Jul'18 - Nov'18)
• Spam URL classification using Machine Learning	(Jan'19 - Apr'19)

TECHNICAL SKILLS

Languages : C, C++, Python, Bash scripting, HTML, PHP

Tools : Matlab/Octave, LATEX, Git.

POSITIONS OF RESPONSIBILITY

• System Administrator: PC Lab, Electrical Department, IIT Bombay

(Jul'17 - Present)

- Building and maintaining website of EE department, maintaining TA feedback and allotment portals.
- Provide mail service, storage space, computing facilities and network facilities to department.
- Web Nominee: Post Graduate Academic Council, IIT Bombay

(Jul'18 - Jun'19)

- Designed new web portal for PGAC which is used by all the Post Graduate students of the institute.
- Mess Secretary: Hostel-1, IIT Bombay

(Sep'17 - Mar'18)

- Managed all mess related activities for a mess which catered for 250+ students.

CO & EXTRA CURRICULAR ACTIVITIES

- Completed Machine Learning course by Andrew Ng from Coursera. (2019)
- Conducted a introductory session on Linux, vim and Git as a part of Bridge Course. (2019)
- Voluntered for an introductory session on **Python** which was conducted as a part of Bridge Course. (2019)
- Completed a 100 hrs course on Chinese language conducted by International Relations office IIT Bombay. (2019)
- Completed Basic course in **French** Language from Vivekananda Institute of Languages, Hyderabad. (2013)
- Active member of National Service Scheme (NSS) for 2 years and attended a camp conducted in a village to perform social activites like conducting medical camps, cleaning and painting common facilites like village panchayat, temple etc. (2013)
- Voluntered for 1st World Parliament on Spirituality for a week as part of NSS activity. (2012)