

EDUCATION

Masters in Information Management and Systems, University of California, Berkeley **2021 – Present**
Relevant coursework: Quantitative Research Methods, Natural Language Processing, Information Organization, AI in Healthcare
Focus Areas: Machine Learning, Big Data, Software Development, Platform Engineering, Ethics

B. Tech in Computer Science and Engineering, PES University, Bangalore (CGPA: 9.3/10) **2016 - 2020**
Relevant coursework: Big Data, Cloud Computing, Image Processing, NLP, ML, Deep Learning, Social Network Analytics
Scholarships: Prof. M R Doreswamy Merit Scholarship (Perfect GPA), Prof. CNR Rao Merit Scholarship (Top 15% of the university), Scholarship America Merit Scholarship
Hackathons: Overall Winner & Audience Choice Award Winner, NTT Data All-India Hackathon (Code for Good)

WORK EXPERIENCE

Intuit Inc., Bangalore, India **Software Development Engineer** **Jan 2020 - Present**

- Designed a plugin, using React, for QuickBooks Online, allowing users to upload and tailor invoices, attracting over 10,000 users.
- Used RxJava to optimize the data ingestion process for the Quickbooks reports engine, using in-memory database operations, support for import of data from multiple resources, and making code execution reactive.
- Worked in the Global Identity Platform Team to pre-fill never-entered data using third party services. Was instrumental in implementation of an address widget and profile widget to minimise data redundancy and inconsistency, and pre-filling existing data.
- Designed and implemented a comparator tool using Javascript, to analyse the transition to a new microservice-based login flow for Quickbooks online.

NTT Data, Chennai, India **Research Intern, Deep Learning** **Jun 2019 - Aug 2019**

- Built Random Forest Classifiers and Vanilla Neural Networks to predict acceptance or denial reason for an insurance claim for the Data Intelligence & AI Platform (HEURI). Achieved accuracies of over 90% on ~4 million records. Models were used in production.

RESEARCH AND PUBLICATIONS

Centre for Research in Healthcare, Bangalore **Capstone Project, Funded** **Jan 2020 - Aug 2020**

- Implemented the first instance of a Capsule Network for breast cancer detection at Sri Shankara Cancer Hospital and Research (Karnataka's largest NGO Hospital), resulting in an F1 score of 0.86.

Centre for Cloud Computing & Big Data, Bangalore **Research Intern** **Jun 2018 - Sept 2018**

- Designed an algorithm to keep a fraction of the disks on stand-by to reduce overall power consumption in OpenStack's object store - while maintaining consistency and integrity of stored data.

Publication **A Framework to Capture the Shift in Dynamics of a Multi-phase Protest - A Case Study of Hong Kong Protest**

- Paper was published in the Springer LNNS (Lecture Notes in Network and Systems) series. [Link to paper](#).

POSITIONS

Tech+Social Good @ PESU **Founder** **Aug 2019 - Present**

- Spearheading technical projects and other activities of the first Indian [TechShift](#) organization.
- Conducted hackathons and career fairs to encourage the development of technology for social good.

PES Debating Society **President** **Jan 2019 - Jan 2020**

- Participated in over 20 debates, and won awards at prestigious tournaments such as BITS, IIT, and NLS.

Centre for Cloud Computing and Big Data **Teaching Assistant** **Jan 2020 - May 2020**

- Designed assignments, conducted project seminars, and mentored student groups for the Cloud Computing and Big Data courses.

PESU IO **Subject Matter Expert** **Oct 2019 - Dec 2019**

- Taught the course "Algorithms in the Real World" to a class of 40 students, and mentored several projects.

ACADEMIC PROJECTS

Text Generator

- Built a **character-level RNN** and **Bi-Directional RNN** with **LSTM** and **Doc2Vec** to generate text from novels.

Enhancing Social Recommendations (Independent Research)

- Used Computer Vision (Places365-CNN) for scene understanding, and NLP (topic modelling, tf-idf, graph-based keyword extraction using RaKUn, etc) to match people by both, their text bio and pictures. (This was a proof of concept)

Spark Cricket Score Predictor

- Engineered an algorithm using **Spark MLlib** to predict the outcome of an IPL (Indian Premier League) cricket match, given data for the past 10 years, and the batter line-up.

Container orchestration system

- Implemented a container orchestration system from scratch, using Node and AWS, which performs health checks, scale-up, scale-down, and load-balancing.

File System Implementation

- Implemented a basic file system from scratch, supporting all common file system operations, in C.