

EDUCATION

- **State University of New York** Buffalo, NY
Master of Science in Computer Science Aug. 2017 – Dec. 2019
- **Institute of Technology** Bilaspur, India
Bachelor of Engineering in Information Technology; GPA: 3.30 (7.75/10.0) Aug. 2011 – July. 2015

PROJECTS

- **MNIST and USPS Data Classification:** Python based Classification using Logistic Regression, Double Hidden Layer Neural Network and CNN
- **Learning to Rank (LeToR):** Python based prediction system using linear regression
- **Laplacian Blob Detector:** Matlab based Computer Vision and Image Processing Scale-space blob detection
- **Spatial Pyramid Matching for Scene Classification:** Matlab based representation on bags of visual words.
- **Vulgar Abuse filter as Browser Extension:** Deep Learning based social feed analyzer to block abuse
- **Indian Regional Languages Character recognition:** Modelled an ANN to classify and recognize input images.
- **Load Balancing of Wireless Networks:** Implemented socket programming to balance the network load

PROGRAMMING SKILLS

- **Language & DB:** Java, C++, Ruby, Python, JavaScript, MongoDB, Mysql **Tools:** Sublime, Netbeans, Git

WORK EXPERIENCE

- **Faasos Food Services** Mumbai, India
Software Engineer Dec 2015 – May 2017
 - **Backend Micro-Service API:** Developed & maintained all REST based Web Services. Micro-services written in NodeJs, Python & Ruby on Rails. Scaled MVPs to production level software consuming 300K requests per second. Optimized, re-factored & reduced errors by 25% of existing code base.
 - **Devops Role:** Leveraged AWS Lambda function to scale a server-less stack. Wrote and improved algorithm to bid for cheapest & optimum spot instances of server and deploy dynamically.
 - **oAuth:** Generation of a JWT token, verifying validity for each requested and re-issuing expired tokens. Implemented redis based bloom filter, which increased efficiency by 63%
 - **Material Management System:** Full scale delivery supply chain tracking tool, webapp on Node.js, to be used by stores, warehouses and vendors.
 - **Time-series Forecasting:** Weekly ARIMA forecasting of orders (200 stores X 400 products). Winter-Holts forecasting of inventory consumption for auto-indenting in the supply chain. Implemented using Node.js and Mysql & python based Lambda function.
 - **Configuration Server:** Self discovering high availability configuration server for serving env specific values. Dynamo-DB and Node.js based Lambda function that was fired at initialization of any servers
 - **Marketing Dashboard:** Designed & Developed an event based predictive user analytic platform in Django for raising coupons and scheduling marketing campaigns.
 - **Side Tasks:** Hiring & mentoring of new developers.
- **Socomo Technologies-Jugnoo** Chandigarh, India
Full Stack Developer June 2014 - Nov 2015
 - **Back End Auto Rides Server:** Node.js - Express based server web, android and ios app API's for finding ride, displaying coupons, audit dashboards. MySql was used as database with calculating ride distance, allocation of driver, fare calculation done in Python
 - **Front-end Team Lead:** AngularJS 1.0 Single Page Applications, used by 3k+ Operations team. Headed a team of 4 developers
 - **Price Surge Algorithm:** Mapping out real time supply vs demand ratio using a clustering algorithm, depending on geo-location.
- **NTPC - IT Department** Noida, India
Technical Intern Summer 2013
- **Roorkites Educational Publishers** IIT Roorkee, India
Web Developer Intern May 2012 - Jun 2012