

## EDUCATION

<b>M.S in Computer Science</b>	<b>University of Illinois at Chicago</b>	<b>May 2019(Expected)</b>
• Cumulative CGPA: 4.0; <b>Coursework:</b> Introduction to Machine Learning, Statistical NLP, Advance Machine Learning		
<b>B.Tech. in Computer Science</b>	<b>National Institute of Technology, Bhopal</b>	<b>May 2014</b>
• Cumulative CGPA: 3.2; <b>Coursework:</b> Data Structures, Design and Analysis of Algorithms		

## LANGUAGES AND TECHNOLOGIES

- Python, Java, C
- TensorFlow, Keras, Scikit-Learn, Apache Hadoop, Apache Spark, Kubernetes, Docker, Jenkins, Amazon Web Services, Microsoft Azure, Oracle, MySQL

## EXPERIENCE

<b>Enterprise Architect Intern</b>	<b>Blue Cross Blue Shield Association, Chicago</b>	<b>May 2018-Aug 2018</b>
• Developed cloud migration plan, setting up cloud computing infrastructure for various projects including sandbox, Office 365, SharePoint and Project Server migration to cloud		
• Performed technical analysis related to cloud infrastructure, Application Portfolio and updated/created the Architecture deliverables		
• Coordinated technical activities in setting up the environment, security in public cloud for various projects including sandbox, Office 365, SharePoint and Project Server migration to cloud		
<b>Graduate Teaching Assistant</b>	<b>University of Illinois at Chicago</b>	<b>Aug 2017 – May 2018</b>
• Teaching Assistant for the Machine Organization course taken by more than 200 students which covered machine language and architecture		
• Created and grade assignments, answered questions posted by students on Piazza and held office hours		
<b>Technical Analyst</b>	<b>Oracle Financial Services Software, India</b>	<b>Aug 2014 – Jun 2017</b>
• Developed <b>Oracle Banking Platform</b> product; a core banking solution and involved in major product releases for client headquartered in Australia		
• Assisted in transition to replace bank old legacy system and reduce processing times by as much as 90%		
• Provided innovative solutions to critical customer problems using problem solving and contingency management		
• Conducted performance analysis of OBP product on various platforms and evaluation of OBP integration with other Oracle products to make the product more efficient		
<b>Web Developer Intern</b>	<b>Netlink Software Pvt. Ltd, India</b>	<b>May 2013 – July 2013</b>
• Developed and designed a comprehensive election campaign site and an online government portal using Drupal CMS which increased public contact and awareness		

## PROJECTS

- **Instance Segmentation using Convolutional Neural Networks**
  - Generated bounding boxes and segmentation masks for each instance of an object in the image using **Mask R-CNN**
  - Evaluated the effect of synthetic data on performance of the model on various datasets
- **Parallel and Stochastic optimization of Conditional Random Field for optical character recognition (OCR)**
  - Designed and developed parallel optimization algorithm based on the LBFGS solver provided by **PETSc**, leveraging its parallel primitives and testing the scalability on cluster
  - Implemented stochastic gradient solvers (SGD and ADAM), and tested their efficiency in comparison with LBFGS
- **Structured Output Prediction using Conditional Random Fields**
  - Developed a conditional random field model for Optical Character Recognition (OCR), with emphasis on inference and performance test
  - Performed benchmarking by comparing **CRF** with multi-class linear SVM
- **Sentiment Analysis of Twitter Corpus**
  - Conducted comparative study of Machine Learning and Deep Learning models for Sentiment Analysis
  - Designed deep learning models to achieve state of the art performance on complex task such as sentiment analysis on twitter dataset
- **Evaluation of stock investment decisions using Monte-Carlo simulation and OctaPi cloud**
  - Performed Monte-Carlo simulation for evaluation of stock purchase decisions that runs on **Spark** and deployed on private **OctaPi** cloud using **Kubernetes**

## ADDITIONAL EXPERIENCE AND AWARDS

- **Oracle Financial Services Software:** Employee Recognition Awards: appreciation of excellent contribution to Oracle OBP product team: We-Applaud Award, I-Appreciate Award
- **Hackathons:** Intel AI Dev Camp Chicago, U.S. Soccer Hackathon 2018