

EDUCATION

M.S in Computer Science **University of Illinois at Chicago** **May 2019(Expected)**
 • **Cumulative CGPA:** 3.8
 • **Coursework:** Introduction to Machine Learning, Statistical NLP, Advance Machine Learning, Language and Vision, Visualization and Visual Analytics.

B.Tech. in Computer Science **National Institute of Technology, Bhopal** **May 2014**
 • **Cumulative CGPA:** 3.2; **Coursework:** Data Structures, Design and Analysis of Algorithms.

LANGUAGES and TECHNOLOGIES

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

EXPERIENCE

Graduate Teaching Assistant **University of Illinois at Chicago** **Jan 2019 – Present**
 • Teaching Assistant for the Machine Organization course taken by more than 200 students which covers machine language and computer architecture.
 • Create and grade assignments, answer questions posted by students on Piazza and hold office hours.
 • TA for machine organization course for Fall 2017 and Spring 2018 session.

Enterprise Architect Intern **Blue Cross Blue Shield Association, Chicago** **May 2018-Aug 2018**
 • Developed cloud migration plan, setting up cloud computing infrastructure for various projects including sandbox, Office 365, SharePoint and Project Server.
 • 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.

Technical Analyst **Oracle Financial Services Software, India** **Aug 2014 – Jun 2017**
 • Developed Oracle Banking Platform 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 to make the product more efficient.

PROJECTS

- **In-depth Visualization of US Air Quality data**
 - Created different visualizations for US Air Quality data at the daily and hourly level by using the US EPA data.
 - Insights provided about various questions related to air quality in the US using graphical and geospatial visualizations.
- **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.
- **Question Answering on Reading Comprehension dataset**
 - Enhancement to an existing Question Answering system (SemanticILP) for reading comprehension type data with multiple choice answers.
 - Decreased the processing time of the system by 30% with a 0.01 decrease in the overall F1 score and 0.01 increase in the per question F1 score.
- **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.

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 2018, U.S. Soccer Hackathon 2018, Hack Illinois 2019