

# RUPALI KOTINA

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## EDUCATION

Bachelor of Computer Science, State University of New York, University at Buffalo August 2017 - May 2019  
Relevant coursework: Data Structures, Discrete Structures, Introduction to Machine Learning, Operating Systems, Software Engineering, Introduction to Programming Languages, Design and Analysis of Algorithms

## HONORS

Dean's List Spring 2018  
Member, Tau Sigma Honor Society January 2018 - Present

## WORK EXPERIENCE

**Teaching Assistant for CSE 250 Data Structures** August 2018 – May 2019  
*University at Buffalo* Buffalo NY, USA

- Worked under Prof. Andrew Hughes and in implementing data structures
- Content Covered: Stacks, Queues, Linked Lists, Recursive Algorithms, Trees, Binary Trees, AVL Trees, Huffman Coding, Searching and Sorting
- Supervised student examinations and graded them based on devised rubrics

**Research Aide** February 2018 – May 2019  
*Food Systems Planning and Healthy Communities Lab* Buffalo NY, USA

- Translated / Transcribed audio files using Audacity
- Analyzed and visualized data generated by the transcriptions using NVivo version 10 and MS Excel
- Researched policies to strengthen food systems

**Creative Design Intern** May 2017 – August 2017  
*Team 4 Progress Technologies LLC* Bangalore, India

- Observed design techniques and tools: web layouts
- Reviewed code and assessed the impact of submitted changes
- Designed Web layouts and Modern Resume layouts

**Engineering Intern** May 2016 – June 2016  
*Hindustan Aeronautics Limited* Sunnabeda, India

- Researched on techniques to improve the user interface JApplet
- Incorporated the use of Test Driven Development and Agile Methodology of Software Development to ensure proper functioning of the JApplet
- Led effectively with a team of 4 members with skills in engineering and design

## PRESENTATIONS

Kotina, R., Leon, D., Sweeny, E., Mui, Y., & Raja, S. 2019. "Organic Farming Opportunities: Quality over Quantity." 15<sup>th</sup> Annual Celebration of Center for Undergraduate Research and Creative Activities, University at Buffalo, State University of New York. Buffalo, NY, April 25, 2019.

## SKILLS

**Tools:** NetBeans; CLion; PyCharm; Rational Rose; NVivo

**Database Management:** MySQL; Oracle; MS Access

**Research and Planning:** Identifying problems; gathering information; developing evaluations; calculating results

**Linguistic Skills:** English; Hindi; Oriya; Telugu

**Coding languages:** JavaScript; Python; C; C++; HTML; CSS; SML; OCaml; Java; PHP

**Soft Skills:** Strong communication; teamwork; interpersonal; cultural competency; and organizational skills

**Operating Systems:** Windows (98, XP, 10); Mac OS X; Linux

## PROJECTS

### Naïve Bayes Classifier (Using Python)

Implemented and evaluated a Naive Bayes Classifier that uses priors on the target class variable as well as individual features. Assignment focused on how the classifier gets impacted by underlying bias in data.

### Linear Models for Supervised Learning (Using Python)

Implemented three different classifiers using python: perceptron, logistic regression and support vector machines. Assignment focused on finding the most accurate classifier among the three.

### Multilayer Perceptron (Using Python)

Implemented and evaluated a multilayer perceptron for classifying handwritten digits. This project uses TensorFlow Library to deploy neural networks.

### Web Portfolio (Using JavaScript, PHP, HTML, CSS)

Designed a personal, interactive website showcasing my resume, blogs and projects. This is a work-in-progress.

### Poker Game (Using Java)

Designed a game called Poker Game for one player to learn the basic rules of hands in poker (the rules are different than the traditional game of poker).