

## SUMMARY

- Motivated Ph.D. student seeks a internship opportunity to get an industrial experience on machine learning and data mining projects.
- Experience in Information Retrieval, and Machine Learning research projects.
- Proficient in Python, JAVA, C++, and C.

## EDUCATION

Ph. D., Computer Science (4.0 GPA)	University of North Texas, Denton, TX	2015 - 2017
Ph. D., Computer Science (4.0 GPA)	Kansas State University, Manhattan, KS	2017 - Present
B. Tech., Computer Engineering	Dharmsinh Desai University, Gujarat, India	May 2014

## TECHNICAL PROFICIENCY

Programming	: Python, Java, C++, C, Matlab
Frameworks	: Weka, Word2Vec, WordNet, PDFBox
Tools	: NetBeans, Eclipse, PyCharm, Spyder

## WORK EXPERIENCE

### Graduate Research Assistant, Kansas State University, USA

August 2017 - Present

Technologies: JAVA, MATLAB, Python, WEKA, Words2Vec, WordNet, PDFBox, Windows, Linux

Updated the code for PDFMEF

- Fixed a bug to handle the xml output generated from GROBID tool
- Added a module to call the pdffigures2 and handle the output of the pdffigures2

### Graduate Research Assistant, University of North Texas, USA

March 2015 – August 2017

Technologies: JAVA, MATLAB, WEKA, Words2Vec, WordNet, PDFBox, Windows, Linux

Focused crawling for finding research articles from the web

- Exploited titles and authors of 44k research articles
- Collected around 2 million PDF documents and identified around 1 million research articles from them
- Provided an alternative way for finding researcher homepages to help digital libraries

Key phrase extraction task

- Implemented features from an existing paper, and added context based features
- Applied supervised machine learning algorithms to solve the problem

Identifying research articles from the the collection of documents

- Implemented structural features for identifying research articles, and achieved 93.92% accuracy
- Used co-training for improving URL based classifier

### Software Engineering Intern, ISRO (Indian Space Research Org.), India

Dec 2013 - Apr 2014

Technologies: C++

Implementation of Layer-2 LAPDm of GSM stack for disaster management

- Study about GSM Protocol Stack for Universal Satellite wide-band Terminal
- Modified the implementation of Layer-2 LAPDm of GSM stack

## PROJECTS

### Web Search Engine

March 2016 - April 2016

- Implemented search engine to find relevant HTML pages from UNT domain
- Used cosine similarity between query and HTML page to see relevance
- implemented additional user feedback to get more relevant pages
- Language: JAVA

### Part of Speech Tagger for Tweeter Sentences

Nov 2016 - Dec 2016

- Trained model using Twitter sentences

- Used bi-gram and trigram Hidden Markov Model along with morphological rules
- Used Viterbi algorithm for dynamic programming
- Language: Python

#### **Eagle's Eye (Bus tracking android application for UNT buses)**

April 2017 - May 2017

- Developed bus tracking app for android platform Lollipop-5.1.1 or greater
- User can select any bus route. Buses currently running on that route will be highlighted on the screen with live update of current location. Nearest bus stop with distance will be shown to user.
- User can comment on any bus by tapping on it. Buses are colored red or green depending on whether the bus is full or not
- Language: JAVA

#### **Simulation of Process Scheduling**

March 2016 - April 2016

- Developed different algorithms for reducing average waiting time and average turn around time for different constraints on memory and speed of processors
- Language: C

#### **Mario Game for Android**

Oct 2013 - Dec 2013

- Developed one stage of Mario Game for android platform Jellybean- 4.2.2 or greater
- Player has to pass through different enemies along with which he/she can take coins and also energetic impact (eat ice-cream) available
- Used Canvas, Surface View, Sprite Animation
- Language: JAVA

### **ACHIEVEMENTS & AWARDS**

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- Dean Tuition Scholarship Summer 2015.
- Toulouse Graduate School (TGS) Tuition Benefit Scholarship 2015-2017

### **LEADERSHIP & ACTIVITIES**

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- Presented Computer Science Department in Grad Study Expo at UNT (September 2015).
- Presented Computer Science Department in event for new international students at UNT (September 2015)
- Presented study regarding a game for children at Fort Worth Museum of Science and History (December 2015)
- Administered events committee at Felicific 2013 - The Cult & Tech Fest of DDU, Dharmasinh Desai University
- Leader of Food committee in BAPS Swaminarayan Chhatralaya (2010-2013)

### **PUBLICATIONS**

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- Sujatha Das Gollapalli, Krutarth Patel, and Cornelia Caragea. "A Search/Crawl Framework for Automatically Acquiring Scientific Documents." CoRR, 2016.