

# Vipula Rawte

518-203-9594 | [rawtevipula25@gmail.com](mailto:rawtevipula25@gmail.com) | <https://vr25.github.io> | Non-US Citizen

## EDUCATION

### Rensselaer Polytechnic Institute (RPI)

MS in Computer Science | GPA: 3.6/4.0

New York, USA

Expected Spring 2021

### University of Mumbai (MU)

MEng. in Computer Engineering | CGPA: 9.36/10

BEng. in Information Technology | Score: 78/100

Mumbai, India

Fall 2015

Spring 2013

## RESEARCH EXPERIENCE

### Graduate Research Assistant

Financial Text Analytics | MS Thesis | *Advisor: Dr. Mohammed J. Zaki*

Implemented modern NLP solutions for analyzing long SEC filings.

RPI

Fall 2018 – Fall 2020

### Research Intern

Cognitive Architect Advisor | *Manager: Dr. Anika Schumann*

Developed a *seq2seq* model for software version entity recognition.

IBM Research - Zürich

Summer 2018

### Graduate Research Assistant

NanoMine | *Advisor: Dr. Deborah McGuinness*

Built an Ontology for Polymer Nanocomposites.

RPI

Fall 2016, Summer 2017

### Graduate Student

OBESTDD | MS Thesis | *Advisor: Bidisha Roy*

Developed a prototype for Ontology-based Expert System for Thyroid Diagnosis.

MU

Fall 2014 - Fall 2015

## TEACHING EXPERIENCE

### Graduate Teaching Assistant, RPI

Assistant Professor, MU

Lecturer, MU

Spring. 2017 – Spring 2018

Spring 2016

Fall 2014 – Fall 2015

## PUBLICATIONS

**Vipula Rawte**, Aparna Gupta, Mohammed J. Zaki, “A Comparative Analysis of Temporal Long Text Similarity: Application to Financial Documents”, In ECML PKDD Workshop on Mining Data for financial applications (MIDAS 2020)

**Vipula Rawte**, Aparna Gupta, Mohammed J. Zaki, “Analysis of year-over-year changes in risk factors disclosure in 10-K filings”, In SIGMOD/PODS Workshop on Data Science for Macro-Modeling with Financial and Economic Datasets (DSMM 2018)

**Vipula Rawte**, Aparna Gupta, Mohammed J. Zaki, “Using supervised learning techniques for entity relationships”, In SIGMOD/PODS Workshop on Data Science for Macro-Modeling with Financial and Economic Datasets (DSMM 2018)

**Vipula Rawte**, et.al., “An Ontology for a Polymer Nanocomposite Community Data Resource”, Extended Abstract In Proceedings of ACM Web Science Conference (WebSci 2017)

**Vipula Rawte**, Anuradha Srinivasaraghavan, “Fraud detection in health insurance using data mining techniques”, In IEEE Proceedings of International Conference on Communication, Information & Computing Technology (ICCICT 2015)

**Vipula Rawte**, Bidisha Roy, “OBESTDD: Ontology based expert system for thyroid disease diagnosis”, In IEEE Proceedings of the International Conference on Nascent Technologies in the Engineering Field (ICNTE 2015)

## TECHNICAL SKILLS

**Proficient:** Python, PyTorch, ML and NLP Python Libraries

**Moderate:** Keras, CSS, PHP, Git, L<sup>A</sup>T<sub>E</sub>X, RDF, OWL, SPARQL, XML, JavaScript

**Familiar:** TensorFlow, C, C++, Java

## AWARDS

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CRA-WP Career Mentoring Workshop	Fall 2020
SIGKDD Student Travel Award	Summer 2020
ACM - W Grad Cohort Workshop Scholarship Award	Spring 2019
ACM - W Grad Cohort Workshop Scholarship Award	Spring 2018
RPI CS Department - Grace Hopper Scholarship Award	Fall 2018
Grace Hopper Scholarship Award	Fall 2017
Best poster at RPI CS Department Poster Session, (Voting rule: Borda)	Spring 2017
Ranked first in the Department of Computer Engineering, MU	Fall 2014

## RELEVANT COURSEWORK

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**Graduate:** Frontiers of Network Science, Deep Learning (Audit), Natural Language Processing (Audit), Data Mining, Ontology Engineering, Distributed Systems and Algorithms, Operating Systems, Semantic Web Technology, Soft Computing

**Undergraduate:** XInformatics, Artificial Intelligence, Software Project Management, Internet Programming

## ACADEMIC PROJECTS

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<b>Course: XInformatics</b>	RPI
<b>Nutrition Informatics</b>   <i>Advisor: Thilanka Munasinghe</i>	Spring 2021
Working on an Information System for diabetic patients.	
<b>Course: Frontiers of Network Science</b>	RPI
<b>Stock Market Network for S&amp;P 500</b>   <i>Advisor: Dr. Boleslaw K. Szymanski</i>	Fall 2020
Created a financial network based on S&P 500 stock prices to study the network evolution.	
<b>Course: Ontology Engineering</b>	RPI
<b>Health and Food Ingredients.</b>   <i>Advisor: Dr. Deborah McGuinness</i>	Spring 2017
Constructed a food ingredients ontology for packaged food.	

## ORGANIZATIONS

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**Premium Member:** Anita Borg Institute

**Student Member:** Syssters, Women Techmakers, ACM, ACM-W, IEEE, IEEE Young Professionals

## REFERENCES

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**Dr. Mohammed J. Zaki:** RPI

**Dr. Aparna Gupta:** RPI