

Vipula Rawte

rawtevipula25@gmail.com | <https://vr25.github.io>

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^AT_EX, RDF, OWL, SPARQL, XML, JavaScript

Familiar: TensorFlow, C, C++, Java

AWARDS

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

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

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

ORGANIZATIONS

Premium Member: Anita Borg Institute

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