

RISHAV RAJ AGARWAL

rishavraj.agarwal@gmail.com
http://www.rishavrajagarwal.com

EDUCATION

University of Waterloo, Canada

2018-Present

Master of Math in Computer Science

CGPA: 84.3/100

Teaching Assistant: Introduction to Programming in Python; Management Information Systems

Relevant Coursework: Advanced topics in AI; Advanced topics in HCI, Theory of Deep Learning

Indian Institute of technology Kanpur (IITK), India

2012-2016

Bachelor of Science in Economics

CGPA: 7.7/10

Academic Mentor: Fundamentals of Computing

Relevant Coursework: Probability and Statistics, Econometrics; Machine Learning Techniques; Artificial Intelligence Programming

PUBLICATIONS

- Agarwal, Rishav Raj, et al. "Predicting financial trouble using call data—On social capital, phone logs, and financial trouble." PLoS one 13.2 (2018): e0191863.
- Singh, Vivek K., and Rishav R. Agarwal. "Cooperative phoneotypes: exploring phone-based behavioral markers of cooperation." Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing. ACM, 2016.
- (Under Review) Agarwal, Rishav Raj, et al Exploring clustering based phone-based behavioral markers of cooperation.
- (Under review) Agarwal, Rishav Raj, et al On Finding Influencers in Social Networks.

WORK EXPERIENCE

EXL Services

Sept'16-Aug'16

Consultant-II

Gurgaon, India

- Co-created end-to-end **HR analytics and visualization app** which collates, checks data integrity and generates relevant reports. | **VBA**
- Implemented ML based predictive models** for profitable mailing campaigns for a product portfolio worth USD 0.75M | **R SQL**
- Web analytics and identifying KPI using Adobe Marketing cloud to generate reports and create interactive dashboards | **Omniure SQL**
- Designed and conducted** a training session on Kaggle competitions which was attended by over 200 employees and mentored interns.

Multimedia and Networking Lab, Academia Sinica

May'16-Jul'16

Visiting Scholar

Taipei, Taiwan

- Predicted the propensity to pay bills on time using credit card and phone logs collected from 60,000 individuals over 2 years. | **R**
- Devised metrics** to collectively predict future financial trouble using previous months' data and **authored a paper** (PlosOne)

School of Communication and Information, Rutgers University

May'15-Jul'15

Research Intern

NJ, USA

- Analyzed **cooperation** trends using **spatio- temporal mobility data** and survey data from the Rutgers Wellbeing Study. | **R, WEKA**
- Co-authored paper** (UbiComp'16) and coined **Phoneotypes**, a set of characteristics observable via mobile phone.

ENTREPRENEURSHIP

myObjectify <www.MyObjectify.com>

Dec'13-Apr'15

- Created a **Business Plan** for the idea which was among the **ten best startups** at DisruptIt, IIM Bangalore.
- Developed 3D rendering app** that displays 3D files on the browser and integrated it to the e-commerce website.

SELECTED PROJECTS

Probabilistic Hypergraph Neural Networks

Jan'18-Present

- Improving graph neural networks with hypergraph enrichment. | **TensorFlow**

Discovering Influencers in Online Social Networks

Sep'18-Jan'18

- Devised a novel method to find influential nodes in a social networks and tested it on real world datasets. | **Python**
- Publication under review.

AWARDS AND HONOURS

- Won a spot at the 5th Mega Heritage Photo Exhibition, a pan-India Photography competition out of 1000 entries. 2017
- Winner, **Blog for a Cause** (a nationwide social blogging contest), Techkriti'14. 2014
- Winner **pitch-ur-product** competition in the Entrepreneurship Fest, Esummit'13, IIT Kanpur. 2013
- Secured All India Percentile of **99.3% among 479,651** candidates in IIT-Joint Entrance Exam (IIT-JEE) 2012

SKILLS

Programming: Python | R | SQL | VBA | C++

Analytics Tools: WEKA | Adobe Marketing Cloud | MS Excel | Tableau

Languages Know: English | Hindi | Bengali