

# RISHAV RAJ AGARWAL

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## RESEARCH INTERESTS

Computational Social Science | Data Sciences | Social Media Analytics | Big Data | Behavioral Analytics

## PUBLICATIONS

Vivek Singh, Rishav Raj Agarwal 2016. Cooperative Phoneotypes: Exploring Phone-based Behavioral Markers of Cooperation. *2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing, (September 2016)*.

## EXPERIENCE

### EXL Services

#### Assistant Manager

Sept'16-Present  
Gurgaon, India

- Provide end-to-end analytical and visualization solutions clients like Wolters Kluwers based on employee level data

### 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 transactions and phone logs collected from over 60,000 individuals. | **R**
- Devised metrics** to collectively predict future financial trouble using previous months from data collected over two years. | **Python**
- Publication under progress.

### 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**
- Devised a classifier** to rank cooperators based on anonymized social activity (Call/SMS) collected over 10 weeks from 54 students
- Coined **Phoneotpes**, a set of characteristics observable via mobile phone, thus motivating research in a new direction.

## ENTREPRENEURSHIP

### Objectify Technologies <[www.MyObjectify.com](http://www.MyObjectify.com)>

Dec'13-Apr'15

MyObjectify is a 3D printing community cum marketplace.

- 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.
- Represented the company at Mumbai Films and Comics Convention (MFCC'14).

## EDUCATION

### Indian Institute of technology, Kanpur

2012-2016

#### Bachelor of Science in Economics

CPI: 7.7/10 with a **Minor** in Artificial Intelligence

**Student Mentor:** Mentored three freshers for ESC101A (Fundamentals of Computing) at IIT Kanpur and aided in grade improvement.

**Relevant Coursework:** Microeconomics I,II; Behavioral Economics; Econometrics; Machine Learning Techniques; Artificial Intelligence Programming; Probabilistic Machine Learning; Algorithmic Game theory; Quantitative statistics using R; Intro to Cognitive Sciences

## AWARDS AND HONOURS

- 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
- Awarded for **outstanding scholastic achievement** by Ladnu Nagrik Parishad with a cash prize. 2012

## SKILLS

**Programming Languages:** Python | C | C++ (STL, Boost) | R

**Web Development:** JavaScript | HTML | CSS | WebGL (Three.js)

**Others:** LaTeX | Git | Matlab | WEKA | Stata | SAS | VBA

**Languages Know:** English | Hindi | Bengali | German (Basic Proficiency)

**Projects:** Used an ensemble of ML methods to predict BikeShare Demand (**Kaggle Problem**) | Created a Python based app that corrects spelling mistakes based on their phonetic interpretation using Metaphone algorithm (Fresher Summer Project)

## INTERESTS

**Quizzing:** Overall Coordinated of the Quiz Club at IIT Kanpur, won several intra-inter college quizzing events.

**Creative writing:** Produced high researched articles and **editor** for campus magazines, Scientia and Meander

**Open Source:** **ECHO** (An educational app to learn and master pronunciations) | **Moody!** (App that analyses a user's and suggests music)

**Volunteering:** Currently teaching 5<sup>th</sup> grade mathematics at an NGO for underprivileged children 3 times a week.