

# RAJAT AGHI

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## EDUCATION

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### Master of Information Management (GPA: 3.9/4.0)

Expected May 2018

University of Maryland, College Park

*Related Coursework* – Data Analytics & Visualization, Database Design, Introduction to Data Science, Information Environments

### Bachelor of Engineering in Computer Science (GPA: 3.6/4.0)

May 2015

Guru Gobind Singh Indraprastha University, India

## PROFESSIONAL EXPERIENCE

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### Data and Technology Intern

June 2017 – Aug 2017

USDA – Agricultural Research Service, Beltsville MD

- Compared nutrient compositions on food labels with lab values for food products using various hypothesis testing methods.
- Implemented **regression modeling** to calculate missing nutrient values for food items by comparing them to other foods with similar nutrient composition.
- Redesigned and updated the Dietary Supplement and Ingredient Database (DSID) website using **HTML**, **JavaScript** and **PHP**.
- Presented functional specifications of the website to technical and non-technical stakeholders.

### Business Intelligence Analyst

July 2015 – July 2016

Aspiring Minds Assessments Ltd., India

- Initiated and managed the sales pipeline of 15+ sales managers in Excel. Used **regression analysis** to predict manager wise expected revenue.
- Installed and set up the CRM for the sales team. Conducted **requirement gathering sessions**, developed technical design documents and user manuals.
- Analyzed hiring data and generated **business intelligence dashboards** based on client requirements. Helped reduce hiring costs by up to **\$12,000**.
- Developed a predictive model to identify the optimal time to air an advertisement for maximizing hits on the website. Used **Google Analytics** to collect website data.

## ACADEMIC EXPERIENCE

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### Identifying Neighborhood Boundaries

Nov 2016 – Present

- Working on defining neighborhood boundaries for the Washington D.C. area using **urban mobility data**.
- Wrote **Python scripts** to collect data from multiple urban mobility services such as Car2go and Capital Bikeshare.
- **Working with R** (ggplot, dplyr, car) for analyzing and visualizing the data.

### Predicting Consumer Complaints Against Financial Institutions

Jan 2017 – May 2017

- Used CFPB's consumer complaints data set to build **predictive models** using neural networks, decision trees and SVMs.
- Implemented and compared model accuracies in R.

### Visualizing Washington D.C. Crime Data

Aug 2016 - Dec 2016

- Used Tableau to create **interactive dashboards** and storyboards of over 300,000 crime events occurred over past 8 years.
- Discovered and visualized patterns of crime events by location, day, and time.

### Predicting Online News Popularity

Aug 2016 - Dec 2016

- Built a **predictive model** using Mashable's online news popularity data set to predict number of shares for a given article.
- Implemented model in R; Used Tableau for **data visualization and statistical reporting**.

### Graduate Assistant

Apr 2017 – Present

Research Development Office, University of Maryland

- **Increased efficiency by 90%** by using **Excel VBA** to automate report generation of grant proposal evaluations.
- Design, develop and maintain research **databases** using **PostgreSQL**.

## TECHNICAL SKILLS

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- **Tools:** Tableau, Excel VBA, Gephi, DataWrangler, Google Analytics
- **Web Technology:** PHP, JavaScript, HTML5, CSS3, WordPress
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Languages:** R, Python, C++, SQL

## ACHIEVEMENTS AND LEADERSHIP

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- **Presented** at the pre-conference symposium for International Cartographic Conference 2017 in Washington D.C. 2017
- Secured **3<sup>rd</sup> place** in **ischool's open data hackathon**; drafted a solution which assigns a safety index to travel routes. 2016