KISHORE VASAN

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OBJECTIVE STATEMENT

A highly motivated and spirited learner who is excited about what life offers. My core strengths and interests include network analysis, regression analysis, natural language processing, and data visualization. I believe that big data and machine learning is going to be the world order of 22nd century.

EDUCATION

University of Washington *September 2016 - Present*
Bachelor of Science Overall GPA: 3.54/4
Major: Informatics - Data Science
Minors: Quantitative Science, and Mathematics

TECHNICAL STRENGTHS

Computer Languages	Python, R, SQL, noSQL, Java, React, HTML, postgreSQL
Software & Tools	RStudio, Gephi, matplotlib, numpy, pandas, tensorflow, ggplot

EXPERIENCE

DataLab, iSchool September 2017 - Present
Undergraduate Researcher

- Scientometrics: Science of Science. Analyzing large scale bibliometric data on scholarly literature.
- Advisor: Jevin West, Assistant Professor, Information School, University of Washington

Information School, University of Washington Spring 2018, Fall 2018
Teaching Assistant

- INFO 201 - Data Visualization using R. Covers basics of R, git source control, R Shiny and interactive data visualization. Conduct weekly lab sections, grade assignments and final projects.

Genpact Inc. June 2017 - August 2017
Data Science Intern

- Enhancing customer care analytics by automatic emotion recognition system by extracting voice features and classifying using deep learning.
- Unsupervised topic clustering of customer care calls using GM Financial chat transcripts by performing latent semantic analysis on text.
- Worked in a team of 4 people and presented a proof of concept to the upper management.

PUBLICATIONS

Measuring scientific buzz. September 2018
Kishore Vasan and Jevin West.

Towards the proceedings of iConference 2019. (Under review)

Is together better? Examining scientific collaboration across multiple authors, departments and institutions. August 2018
Lovenoor Aulck, Kishore Vasan and Jevin West.

Towards the proceedings of Knowledge Discovery and Data mining(KDD) BigScholar workshop 2018.

RECENT PROJECTS

Does location affect Food Security? April 2018 - June 2018
Analyzing Food Security in the United States *Population Health Informatics*

- Motivation comes from the fact that places along the coast have ease of access to food than the places in the middle of the land, especially during unfriendly seasons.
- Looked at Food Security through the lens of Food Accessibility, Food Nutrition and Food Expenditure. Used several visualizations to explain the state of Food Security along those lines in the United States.
- Performed K-Means clustering to find substantive evidence showing that similar Food secure states are closely location geographically as well.
- Found that there is slight evidence of clustering along geographical lines, in particular 3 main regions in the United States are observed.
- Deliverables included a short paper and a R Shiny app.

Does President Trump's tweets have an impact on Forex? October 2017 - December 2018
Focus on US-South Korea exchange rate *Introduction to Data Science*

- Worked in a team of 4 to find out if there is an effect on the US-South Korea exchange rate every time President Trump tweets about North Korea.
- Used twitter api to gather 6800 tweets. Parsed out all tweets that pertains to North Korea. Performed Difference-in-Differences econometrics method with Canada as our control state.
- Found that there is a decrease in South Korean currency value against US. That is, the value of US currency goes up.

Database for UW Intramural Activities Center(IMA) April 2018 - June 2018
Creating a scalable database for a gym *Introduction to Relational Databases*

- Worked with a team of 4 to create a working database using SQL from scratch.
- Included creating several iterations of Entity-Relationship Diagrams(ERD) in coherence with our business rules and normalization criteria. Key entities included members, equipments, staff, rental, and buildings.
- Coded the final database schema on a local SQL server at our university, several business rules, stored procedures, computed columns and view tables.

Analyzing the impact of vaccinations on child mortality January 2017 - March 2017
Looking at the worldwide trend across time *Data Visualization using R*

- Worked with a team of 3 people to create an interactive R Shiny app analyzing the impact of DPT and Measles vaccinations on the U-5 child mortality rates across time.
- Apart from a world heatmap and several interactive line plots, we also included an interactive 3D scatter plot mapping DPT, measles, and child mortality on the axes and coloring the points based on GDP.
- Observed that vaccinations had a positive impact on reducing the child mortality rates but there was a confounding variable, GDP, controlling the effect of the same.