MANASA HARIHARAN

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https://github.com/manasahariharan

PROFESSIONAL EXPERIENCE

SullivanCotter Inc., Chicago, IL   Aug 2019 - Present
Statistician - CIAI
- Studied and predicted trends in compensation data and determine factors in modeling Physician and APP compensation using Supervised and Unsupervised methods.
- Implemented sampling and bootstrapping algorithms using R and Python to ensure Compensation survey reporting adheres to government regulations and are statistically significant.
- Analyzed impact of CMS Hospital ratings on Executive pay practices using clustering and regression.
- Created a client facing product that benchmarks Physician productivity against industry median and highlights trends and best practices for efficient workforce management.
- Administered and reported surveys regarding Hospitals' response to Covid-19 Pandemic and evaluated statistical significance of results. Created Dashboards and visualization to explore and publish findings.

Monsanto Innovation Center (now Bayer), Champaign, IL   May 2018 – Aug 2018
Data Science Intern
- Created 3D interactive data visualizations and templates for future works as part of a Virtual Reality project to help crop scientists visualize data with more context and make decisions more efficiently.
- Analyzed Seed experiment data and decide factors that contribute to success and failure of models based on statistical tests.

University of Illinois at Urbana-Champaign   Jan 2018 – May 2019
Teaching Assistant, Financial Risk Analysis (FIN 567)
- Created and taught R and Python programming tutorials for students in graduate level courses. Created solutions for financial modeling assessments.

TECHNICAL SKILLS

Python, SQL, C++, R, Tensorflow, Pytorch, Tableau, JIRA, Alteryx, Github, D3

PROJECTS

Spotify Genres Network
Used Spotify API to mine data on over 80k artists across the platform and built a network of genres based on their Co-occurrence. Used Community detection algorithms to study the underlying network structure.

Election 2016 Twitter analysis
Mined Twitter data for tweets related to 2016 US election candidates and labeled dataset based on hashtags using label propagation. Built a classifier to predict sentiment towards candidates.

EDUCATION

University of Illinois at Urbana-Champaign, Champaign, IL   Aug 2017 – May 2019
MS in Statistics, GPA: 3.8/4.0

SASTRA University, Thanjavur, India   July 2013 - May 2017
Electronics and Communication Engineering, GPA: 7.4/10.0