Pragna Bhatt

Projects

- County Level Analysis of Uninsured Adults
  - Analyzed data on county level characteristics of US counties using random forest regression and logistic regression in Python to assess which were most important in explaining county-level variations in uninsured rate.
  - Displayed results of analysis in interactive Tableau dashboards.
- Credit Card Application
  - Analyzed credit card application data applying exploratory data analysis techniques to identify pertinent features for predicting approval status.
  - Applied classification algorithms such as logistic regression and random forest achieving 86% prediction accuracy.
- Visualizing BMI Data
  - Designed dashboards in Tableau and visualizations in ggplot2 to help understand trends over time in average body mass index at the country level.

Skills

- Programming Languages: Python (scikit-learn, numpy, pandas, matplotlib), R/RStudio, SAS
- Machine Learning and Statistics: Classification methods, Linear and Logistic Regression, Dimensionality Reduction Methods, Feature Engineering, Missing Data Methods, Nonparametric Statistical Methods, Hypothesis Testing
- Other: Data Science pipeline (data cleansing, wrangling, visualizing, modeling, interpretation), Tableau, Git

Contact

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Links:
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Education

Loyola University Chicago
M.S. in Applied Statistics | Expected Dec. 2021

- Relevant Coursework: Applied Regression Analysis, Probability and Statistics, SAS Programming, Categorical Data Analysis, Nonparametric Statistical Methods, Data Visualization, Experimental Design, Modeling & Simulation, Predictive Analytics, Statistical Consulting
- Current GPA: 4.0/4.0

Loyola University Chicago
B.S. in Mathematics | Completed May 2020

- Relevant Coursework: Calculus I-III, Linear Algebra, Data Structures and Algorithms
- Graduated Magna Cum Laude; GPA: 3.7/4.0
- Honors/Awards: Dean's List, Presidential Scholarship (merit-based)

University of California, Berkeley
Summer Abroad in Berlin, Germany | 2019

- Relevant Coursework: Complex Analysis, Experimental Course in Mathematics

Experience

Data Science 4 All Fellow
Correlation One | March 2021 - Present

- Selected to participate in a 14-week data science Fellowship (4% acceptance rate) with learning facilitated through real-world data science business cases
- Collaborated with a group of five to explore factors affecting uninsured rate using county level data
- Created a detailed 14-week project plan with biweekly meetings to assign deliverables and ensure timeline remained on track, received mentorship and guidance from an industry data scientist
- Presented findings using Tableau visualizing results accessible to both technical and non-technical audiences

WISER (Women in Science Enabling Research) Fellow
Loyola University Chicago | May 2018 - Present

- Selected from an extensive pool of applicants to be a key participant in mathematical research on a new basis for the one-parameter family of Hopf algebras extrapolating between SYM and QSYM.
- Delivered poster presentation on research at Loyola Undergraduate Research and Engagement Symposium.