Benedict Neo

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Technical Skills

Programming Languages: Python, R, SQL, Java, JavaScript, HTML, CSS
Machine Learning: Pandas, NumPy, Matplotlib, scikit-learn, plotly, Tidyverse
Data Science: Data Science pipeline (cleaning, wrangling, visualization, modeling, interpretation), statistics, time series, hypothesis testing, A/B testing
Tools: SPSS, Excel, Tableau, AWS, GCP, Looker, Google BigQuery, Git

Professional Experience

Undergraduate Research Assistant   Jan 2022 – Present
Iowa State University   *Ames, IA*
- Undergraduate statistics research with Dr. Jarad Niemi, Department of Statistics
- Working on Watershed Erosion Prediction Project (WEPP)
- Turned data from WEPP into Tidy Format
- Build and trained a Gaussian Process model to predict daily Erosion

Data Science Intern   Jan 2022 – Present
bitgrit Inc.   *Remote*
- Help develop Data Science competition for bitgrit data science platform
- Write technical data science articles and tutorials with over 100,000 views
- Develop starter solutions for data science competition

Projects

Covid-19 Dashboard ↗ | *R, Rmarkdown, Flexdashboard, Tidyverse, Plotly, Docker*   Feb 2021
- Hosted dashboard on Github Pages
- Visualized covid-19 data with ggplot2, plotly and leaflet
- Cleaned and manipulated data using dplyr, tidyr, purr and forcats
- Automatic update to dashboard using Github Actions and Docker

Next Word Prediction Shiny App ↗ | *R, Shiny, Tidytext, Tidyverse, MarkovChain*   Aug 2021
- Used R to download and analyze over 4m lines of corpus data
- Cleaned text data using tidytext and dplyr
- Built n-grams and visualized common unigram, bigram and trigram with wordclouds
- Built a Markov chain model for text prediction

Education

Iowa State University   Ames, IA
Bachelors of Science in Statistics, Minor in Computer Science   *May 2023*
- CGPA: 4.0/4.0
- Relevant Coursework: OOP, Data Structures, Discrete Computational Structure, Design and Analysis of Algorithms, Probability and Statistics I & II, Time Series, Statistical Computing, Experimental Design
- Statistics Department Undergraduate Scholarship ($1,000 awarded)

Certification

Data Science Specialization ↗   Coursera
10 course specialization on Data Science by Johns Hopkins University
- R Programming, Data Analysis, Data Cleansing, Data Manipulation, Statistical Inference, Regression Models, Machine Learning

Leadership

Vice President of American University Program Society   Kuala Lumpur, MY
INTI Subang College   *Aug 2019 - Sep 2020*
- Organizing chairperson of Halloween event with over 100 participants.
- Chaired meetings and delegated tasks to 10 committee members