Benedict Neo

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Technical Skills

Programming Languages: Python, R, SQL, Java, JavaScript, HTML/CSS, Bash
Machine Learning: Pandas, NumPy, Matplotlib, scikit-learn, plotly, Tidyverse
Data Science: Data Science pipeline (cleaning, wrangling, visualization, modeling, interpretation), hypothesis testing
Tools: SPSS, Excel, Tableau, AWS, Google Cloud, 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 towards building a Gaussian Process model to predict soil erosion in Iowa
- Dealing with over 2TB of untidy data

Data Science Intern   Apr. 2021 – Present
bitgrit Inc.   *Remote*
- Help develop Data Science competition for bitgrit data science platform
- Wrote technical data science articles and tutorials with over **400,000 views**
- Developed starter solutions for data science competitions, increasing participant rate by 20%
- Gave a data science workshop teaching common data cleaning tasks to 50+ people

Projects

LinkedIn Connections Insights ☑ | *Python, Streamlit, pandas, thefuzz, plotly, pyvis, networkx*   Jan. 2022
- Built a web app with **500+ users** that allows them to gain insights into their LinkedIn connections
- Utilized fuzzy matching to clean and manipulate user text data for more accurate insights
- Visualized user connections with interactive bar charts, time series plots, and network graphs

Next Word Prediction ☑ | *R, Shiny, Tidytext, Tidyverse, MarkovChain*   Aug. 2021
- Analyzed and cleaned over 4 million lines of text corpus data
- Created n-grams and built a Markov chain model for text prediction

Covid-19 Dashboard ☑ | *R, Flexdashboard, Tidyverse, Plotly, Docker*   Feb. 2021
- Cleaned and manipulated data following tidy data principle using multiple R libraries
- Implemented automatic daily updates to dashboard using Github Actions and Docker

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
- 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 a social event with over 100 participants
- Chaired meetings and delegated tasks to 10 committee members