

Benedict Neo

☎ 515-388-0996 ✉ benedict.neo@outlook.com 🔗 linkedin.com/in/benedictneo 🐙 github.com/benthecoder

Education

Iowa State University

Ames, IA

Bachelors of Science, Major: Statistics, Minor: Computer Science

Expected: May 2023

- Cumulative GPA: 4.0
- Courses: Probability and Statistics, Discrete Mathematics, Design and Analysis of Algorithms
- Statistics Department Undergraduate Scholarship (\$1,000 awarded)

Skills

Programming Languages: Python, R, SQL, Java, JavaScript (React), HTML/CSS, Bash

Libraries: Pandas, NumPy, Matplotlib, Plotly, Tidyverse, ggplot2, Scikit-Learn, LightGBM

Tools: SPSS, Excel, Tableau, Power BI, Git, Linux, MongoDB, Google Cloud Platform, AWS, Docker

Data Science: Data cleaning, Data visualization, Hypothesis Testing, Regression, Classification

Experience

Data Science Intern

May 2022 – Aug. 2022

Tesla

Fremont, CA

- Implemented and revamped 10+ PowerBI dashboards that tracks KPIs for critical operations in the factory and gave weekly presentations to managers
- Increased efficiency of a PowerBI dashboard with high-volume data on factory utilities by 80% by rebuilding an optimized data model and writing efficient DAX queries
- Programmed daily automatic refreshes for PowerBI datasets and scheduled notifications to inform key stakeholders of the latest metrics
- Utilized NLP techniques to identify factory assets with recurring failures and built a text classification model which spearheaded the creation of failure codes
- Performed data cleaning and analysis on shift hours and badging data to provide actionable insights on headcount in the factory to mitigate parking problem

Data Science Intern

Jan. 2022 – May 2022

bitgrit Inc.

Remote

- Managed data collection and preprocessing, and formulated solutions for data science competitions
- Published technical data science and machine learning articles with over 300,000 views [🔗](#)
- Taught 50+ people in a workshop best practices and common tasks for data cleaning in Python

Undergraduate Research Assistant

Jan. 2022 – May 2022

Iowa State University

Ames, IA

- Assisted ISU Statistics Professor, Jarad Niemi, in the development of [🐙 WEPPR](#), an R package that emulates the Watershed Erosion Prediction Project (WEPP)
- Wrote functional code in R (Tidyverse) to clean and transform 2TB of raw soil and land data into tidy format
- Utilized Object-oriented programming principles to create classes that validates and preprocess data

Projects

[🐙 Energytics](#) | Python, Streamlit, Pandas, Plotly, Scikit-learn, LightGBM, OpenWeatherMap API

Mar. 2022

- Built a web app that presents insights on energy production cost and building energy usage in the US
- Conducted EDA on 60M records with 18 features to investigate trends, outliers, missing data, and anomalies
- Performed feature preprocessing and generation to extract additional features from temporal and weather data
- Trained and deployed a LightGBM model to predict building energy usage from user location and building details

[🐙 LinkedIn Insights](#) | Python, Streamlit, Pandas, thefuzz, Plotly, Pyvis, Networkx

Jan. 2022

- Developed a web app with **500+ users** that allows them to gain insights into their LinkedIn connections
- Utilized fuzzy matching to clean and manipulate raw user 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, ggplot2, dplyr

Aug. 2021

- Created a Shiny web app for users to input text and obtain multiple next word predictions
- Analyzed and cleaned over 4 million lines of text corpus data sourced from news, tweets, and blogs
- Utilized the Katz Back-Off (KBO) language model and Markov Chains to generate next word predictions