SNEHA VERMA

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EDUCATION

Bachelor of Arts, Luther College   August 2018 – May 2022
Majors: Data Science, Economics   **Cumulative GPA:** 3.916
Languages: English (*Native*), Hindi (*Native*)   **Data Science GPA:** 3.962, **Economics GPA:** 3.871
Relevant Courses: Data Analysis and Visualization, Data Modeling and Querying, Data Structures and Algorithms, Applied Statistics, Fundamentals of Web Programming, Introduction to Data Science, Introduction to Computer Science, Introduction to Statistics, International Economics, Introduction to Econometrics, Economic Numeracy, Environmental Economics, Principles of Economics.

TECHNICAL SKILLS

Languages: Python (*Proficient*), R (*Proficient*), SQL (*Intermediate*), HTML (*Intermediate*), CSS (*Intermediate*).
Operating Systems: iOS (*Proficient*), Windows (*Proficient*), Linux (*Basic*).
Tools: MS Office (*Advanced*), Tableau (*Intermediate*), PyCharm (*Intermediate*), SQLite Studio (*Intermediate*), GitHub (*Intermediate*), Jupyter Notebook (*Proficient*), Sublime Text (*Proficient*), Final Cut Pro (*Intermediate*), Adobe Creative Cloud (*Intermediate*) Stata (*Intermediate*), SPSS (*Intermediate*).

RESEARCH AND ANALYTICAL PROJECTS

Determining Life Expectancy from Health Factors, *Applied Statistics*   December 2020 – January 2021
- Gathered, cleaned, and explored data to conduct statistical analysis and hypothesis testing using R Programming.
- Conducted multiple linear and stepwise regressions to determine the effect of health factors on life expectancy.
- Wrote a final research paper with R Markdown to communicate the analysis process, statistical tests, and results with various regression and residual plots, using ggplot.

Predicting Income Level from Social Factors, *Data Analysis and Visualization*   December 2020 – January 2021
- Cleaned data to deal with missing, duplicate, and biased values with Pandas, scikit-learn and NumPy packages.
- Performed Decision Tree and KNN classification to analyze the model's predictive ability.
- Used Jupyter Notebook to conduct exploratory data analysis, cleaning, mining, and visualizing.

Causality of Trade on Poverty, *Econometrics*   February 2020 – May 2020
- Gathered documented datasets on poverty and trade levels over time and conducted data wrangling using Stata.
- Ameliorated clean datasets to apply multiple linear regression to evaluate the effects of trade levels on poverty rates within a country. Wrote a final research paper describing the results with visualizations.

Analyzing Earthquake Locations, *Introduction to Data Science*   October 2019 – December 2019
- Explored, gathered, and mined data regarding earthquakes in the United States over the past 30 days.
- Analyzed data through PivotTables and summarization (MS Excel) and creative bar chart and map visualizations (Tableau) to conduct statistical analysis and test various machine learning models, including regression and clustering.

Relations Between Race, Gender, and Income, *Economic Numeracy*   September 2019 – December 2019
- Gathered and wrangled data on gender and income levels from the Census Bureau using MS Excel.
- Analyzed the data, conducted hypothesis testing, and conducted regression to find discrimination between income of men and women from different races. Presented the results in a professional setting.

Password Verification Data Structure, *Data Structures and Algorithms*   April 2019 – May 2019
- Created a Hash data structure to store, update, delete, check, and update passwords using Python.
- Used classes and methods to implement the functions of a password manager using Jupyter Notebook.

Creating Web History, *Data Structures and Algorithms*   March 2019 – May 2019
- Used Python Unordered Lists to replicate a web browser's history by giving users the abilities to add, remove, and search for a link that they visited.
- Created multiple methods and algorithms to execute the functioning of a web history.

WORK EXPERIENCE

Web and Data Analytics Intern
Diversity Council, Rochester, MN   February 2021 – Present
- Creating data visualization dashboards with data collected by the Diversity Council to provide information about the socio-economic disparities in the Rochester community and the services provided by Diversity Council.
- Using web and graphic designing skills to improve the appearance and applying SEO strategies to increase traffic.
- Designing and editing the website using Wix, a website-building platform, to show resources for diversity, equity, and inclusion.

Assistant to the Media Relations and Content Specialist

Luther College, Decorah, IA   October 2020 – January 2021
- Wrote over 10 press releases in Associated Press style and distributing the releases to create national awareness about Luther College. Communicated with members of the institution to receive necessary and credible information.
- Researched avenues for releases and connected with news channels to send press releases to reach a wider audience.

Career Peer Advisor at the Career Center

Luther College, Decorah, IA   October 2020 – January 2021
- Supported diversity, equity, and inclusion in the department through social media and increased audience engagement by over 300%. Reviewed over 20 resumes and cover letters to support students through their career process.
- Acted as a liaison to affinity groups to increase awareness about the Career Center among faculty, staff, and students.

Office Assistant at the Center for Excellence in Learning and Teaching

Luther College, Decorah, IA   September 2020 – January 2021
- Conducted pedagogical research for scientifically proven teaching methods that promote inclusion, equality, equity, and diversity, and organized events, workshops, and meetings for faculty development.
- Collected information through surveys and observational data to understand and assist in the improvement of teaching methods on campus.

Social Media and Student Manager at the Technology Help Desk

Luther College, Decorah, IA   October 2018 – October 2020
- Partook in the hiring process by reviewing applications and conducting interviews to hire well-suited workers.
- Trained new hires and guided and mentored fellow technicians. Co-ran the Help Desk Instagram and Twitter accounts to spread awareness about technical updates and tips and increased audience engagement by 20%.

Research Student in the Economic Department for Dr. Samuel Bird

Luther College, Decorah, IA   May 2020 – July 2020, September 2020
- Researched whether the decision to sell crops differs between men and women in agricultural settings.
- Gathered, cleaned, wrangled and documented the data using Stata 16 software and analyzed the data by applying a multiple linear regression model to reach conclusions about the effects of gender on harvesting decisions.

EXTRA-CURRICULAR ACTIVITIES AND ACCOMPLISHMENTS

Member of the Invigorating Student Work Committee	2020 – Present
TEDxLutherCollege Sponsorship and Budgeting Team Leader	2019 – 20
PALS Member	2019 – 20
TEDxLutherCollege Website Manager	2018 – 19
Luther College Dean's List	Fall 2018 | Spring 2019 | Fall 2019 | Spring 2020
Luther College Research Symposium Presenter	Spring 2019