September 22 2022

To whom it may concern,

I am writing this letter to assist you in understanding Runyu YUE's performance in the Data Visualization Online Research Seminar. I have included a program summary for your reference and to provide you with an idea of what the student has accomplished in this program.

The program data visualization covered a range of topics related to data science techniques to visualize and prepare data sets. Specifically, the students learned about common Python frameworks to produce data visualizations like matplotlib and seaborn. The program also covered basic machine learning methods to extract interesting information out of data sets that can then be used for insightful visualizations. During the program, the students also implemented machine learning algorithms using scikit-learn. One lecture has also been dedicated towards methods to retrieve and store large amounts of data. The students learned about different types of databases and explored in more depth No-SQL databases. The last lecture covered other data visualization frameworks like Microsoft Tableau and Google Charts.

Overall, Runyu YUE's performance in this program was excellent. Runyu was quite prepared for each class meeting and mentor sessions. While his effort is recognized, he is suggested to interact more actively during class. I hope he could gain more confidence in learning through engaging in more conversations with me and his peers, which will help him understand where he is situated in the learning process at the moment, thus making improvements accordingly. Runyu has earned high scores for all his assignments. He showed a complete understanding of the problems through identifying, relating, and using all important components of the problem. The appropriate strategy was used accurately that led to strong solutions.

By the end of the program, students worked on the final project, comprising an oral presentation and a written report, in which they applied what they learned in the program to practice. What Runyu has completed was to explore the relationship between garlic intake and the risk of getting different types of cancer with a linear regression model. His report was well-written, with a detailed explanation of concepts used, and careful application to real-life problems. Besides, it was very informative and reflected his solid understanding of the materials covered throughout the program. During his presentation, Runyu avoided using too much terminology for the audience to understand his meaning, presenting with appropriate volume and rate. Overall, Runyu has done an outstanding job in the final project. I hope you will find this letter useful in evaluating Runyu YUE's academic performance as a reference.

Sincerely,

Mark Vogelsberger
Associate Professor
Massachusetts Institute of Technology

David Shen
Senior Advisor, Academic Committee
Path Academics