Statistics Excel Extension

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Client: Dr. Abdelmonaem Jornaz, NWMSU Mathematics

Our project will address the problem Dr. Jornaz has of needing the work his students do in Excel to be me streamlined and user-friendly. Our solution is to create an extension of Excel, using Python, to automatically do some of the functions for the students using dialogue boxes. The input is raw data that Dr. Jornaz has given students to practice statistics on, this could range from large data sets to just a few values, depending on the assignment. The output will be information of value to statistics class, depending on the chosen function. We plan on using XLWings, an open source option to use Python with Excel, and will use GitHub for our project repository. Our expected challenges are in understanding all the statistical functions, having to create deadlines and schedules, creating something that students can easily and reliably install, and in the distribution of the finished project. Despite these challenges, our group is confident that we can help Dr. Jornaz and complete our project. By the end of our project, we will deliver an add-on to Excel that all students using university laptops or computers can install and use. To communicate, our group will use e-mail and the canvas website, in addition to in person meetings. Our project will not cost anything.