Overview: We are trying to help Bay Area Chess optimize their tournament participation, by analyzing previously recorded tournament data to create predictive models that can tell the company which locations and dates for tournaments will likely be the most effective. As of now, Bay Area Chess does not use intelligent models to schedule their tournaments, mainly using popular spots and previously used locations currently. Our client, a co-founder of Bay Area Chess thinks that an analysis of their tournament data (location, dates, participants) will show that there are some locations and dates that should be emphasized when planning tournaments in the future. The end state of this project is that it uses Bay Area Chess data, as well as other Chess tournament organizers’ data, which is all publicly available online, to organize tournaments that will have increasing numbers of participants and grow the popularity of the Bay Area Chess organization.

Target Users: Bay Area Chess staff/directors. Hopefully, the results from our models will tell them with the greatest likelihood where potential future tournaments will have the most participation.

Value: We will increase the popularity of the Bay Area Chess tournaments, and help them grow their future tournaments in size and publicity.

Functionality: Will provide our clients with data visualizations and regression models, based on the data from the hundreds of previously completed Bay Area Chess tournaments in order to best predict future event times and locations to maximize tournament participation.

Technical Recommendation: We plan on mainly using the R programming language and Jupyter notebook to best parse and clean our chess events’ data. Using the recommendation of our client, who has existing code written in the R programming language, and the recommendation of group members who have experience in Data Analytics we are going to utilize RStudio and leverage machine learning to create advanced predictive models with the Bay Area Chess data.

Team Name: The Chessmates