**DATS 6101 Project Proposal – Group Project 2**

**Team Name:** Data Science Rookies (Team No.4)

**Team Members**

1. Bradley Reardon
2. Pranay Bhakthula
3. Baldur Hua
4. Jichong Wu
5. Qinyuan Xing

**Description and SMART Questions**

Have you ever wondered what life on other planets might be like? If so, you are not alone. Humans have been looking to the sky and beyond for centuries wondering what might be found in the vast landscape of the universe. As technology advances, we continue developing tools that allow us to better identify objects of interest beyond the scope of our galaxy, one of those tools being the Kepler Space Telescope (KST). The KST is a space telescope that was launched into Earth’s orbit on March 7, 2009 to monitor more than 150,000 stars in search for transiting exoplanets. All objects the KST shows interest in are labeled as Kepler Objects of Interest (KOI), and the KOI feature data is logged and stored by NASA. This data is available to the public and is what we will be using in this project. The following question is what will drive this analysis:

1. For the 9,564 KOIs in the database, can we use classification methods to accurately classify KOIs as exoplanets based on the given feature data?

**Data Source**

<https://www.kaggle.com/nasa/kepler-exoplanet-search-results>

**Git Repository**

<https://github.com/breardon7/6101-GroupProject>

Citations

1. https://www.nasa.gov/mission\_pages/kepler/overview/index.html