Chris Wiggins in his Essay “The Data Science Revolution” said “Nearly every field of human endeavor is changing -- or even being transformed -- by unprecedented computational resources available to obtain, share, and analyze data...both in the academy and in industry, more research and commerce demands the ability to compute with abundant real world data.” In this talk I will discuss projects my undergraduate students have done in this area on using data mining techniques to predict the winners of NFL football games, MLB baseball games, how tires will perform for Goodyear Tire Company and how HIV patients will respond to various treatment regimens.