New Britain High School Data Science & Statistics Career Talk, Nov. 30 2018

Nathan Lally (Hartford Steam Boiler, CT) gave a one hour presentation to a UConn Early College Experience (ECE, https://ece.uconn.edu/) Statistics class on careers in data science and statistics. Topics discussed included:

- The role of statistics in the scientific discovery process
- Examples of data science and machine learning around us (virtual assistants, recommender systems in social media and online shopping, ride share routing, etc.)
- Typical responsibilities of an industry data scientist or statistician (data cleaning and manipulation, model development, model deployment and application development, reporting results to senior managers)
- Educational pathways towards careers in data science and statistics

The presentation ended with a live tech demo of an auto insurance pricing application where premium was estimated using gradient boosting machines with Tweedie loss trained to publicly available data. Students were able to see how risk factors such as age, vehicle cost, and power to weight ratio can influence premiums.

UConn Early College Experience (ECE) Workshop, April 17, 2019

Nathan Lally (Hartford Steam Boiler, CT) gave a presentation on the history of, and recent advances in, statistics and data science applied to insurance pricing applications to high school mathematics and statistics teachers involved in the UConn Early College Experience (ECE) program, see https://ece.uconn.edu/. The talk also focused on skill-sets required to succeed in modern statistics and data science careers as well as educational resources for students.