Capstone III Project Proposal

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1. *What dataset or datasets do you plan to use? What are the features, rows, and data types of each?*

I plan to use a dataset on the 2022 NFL Combine that I gathered myself via the combine website. The dataset consists of 316 records across ten fields. The fields are identified as follows:

A. Name of Player

B. College Player Attended

C. Position

D. Height in Inches

E. Weight in Pounds

F. Hand Size in Inches

G. Arm Length in Inches

H. 40 Yard Dash Speed in Seconds

I. Vertical Leap Height in Inches

J. Broad Jump Distance in Inches

1. *What research or business questions do you want to answer?*

I would like to answer 3 questions with the data, is there a correlation between weight and vertical leap? Is there a relationship between height and hand size? And do heavier players have a slower 40-yard dash time.

1. *What are your hypotheses going in?*

My first hypothesis is that the heavier a player is the less height they can achieve in a vertical leap, null hypothesis is that weight isn’t a factor in player vertical jump. My second hypothesis is that there is no relationship between height and hand size of players. Third hypothesis is that heavier players have longer dash-times.

1. *How will you use your data to test your hypotheses?*

I will use visualizations to show correlation, and I’ll be using Pearson-r testing to quantify that correlation.

1. *Who will find your findings valuable, and how will they use them?*

Sports researchers may find the data insightful on predicting player performance based on different body attributes, teams may use this data to predict performance on biometric stats.