**ADMN5016 Final Project Proposal**

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We have chosen a dataset containing data about diamond characteristics and their corresponding prices. The dataset contains 53,940 samples with 10 features which include carat, cut, color, clarity, depth, table, price in dollars, x (length in mm), y (width in mm), and z (depth in mm).

We plan to build a machine learning model using Sci-kit Learn to predict diamond price using its corresponding characteristics as the input variables. We will be exploring different prediction models and selecting the model with the best performance.

**Link to Dataset:** <https://github.com/katrinalouiseong/admn5016-finalproject> (Eyas is included as a collaborator to the repository)

**Source of Dataset:** <https://www.kaggle.com/datasets/nancyalaswad90/diamonds-prices>