**Capstone Project 1: Ideas**

**February 04th Cohort**

1. **Supplier Price Prediction:**

In this business case**,** Caterpillar (construction equipment manufacturer) relies on a variety of suppliers to manufacture tube assemblies for their equipment. These assemblies are required in their equipment to lift, load and transport heavy construction loads. We are provided with detailed tube, component, and annual volume datasets. Our goal is to predict how much a supplier will quote for a given tube assembly.

Each supplier has their unqiue pricing model.

Data Source: <https://www.kaggle.com/c/caterpillar-tube-pricing/data>

1. **Insurance Policy Purchase Prediction:**

In this business case, we will use customer’s shopping history such as preferences, coverage options, cost and risks to predict which policy they will end up buying.

Data Source: <https://www.kaggle.com/c/allstate-purchase-prediction-challenge>

1. **Supplier Sourcing Classification:**

In this business case, the San Francisco Controller’s office maintains a database of procurement transactions from 2007 onwards. I want to use this dataset to train a model which can classify suppliers based on spend and other features such as commodity, dates, location, business users and so on.

This will help city maintain a preferred list of suppliers real-time and use appropriate sourcing channels promptly when need arises.

Example: When should city go-to-market Vs use automatic sourcing controls as per policy.

<https://catalog.data.gov/dataset/purchasing-commodity-data>