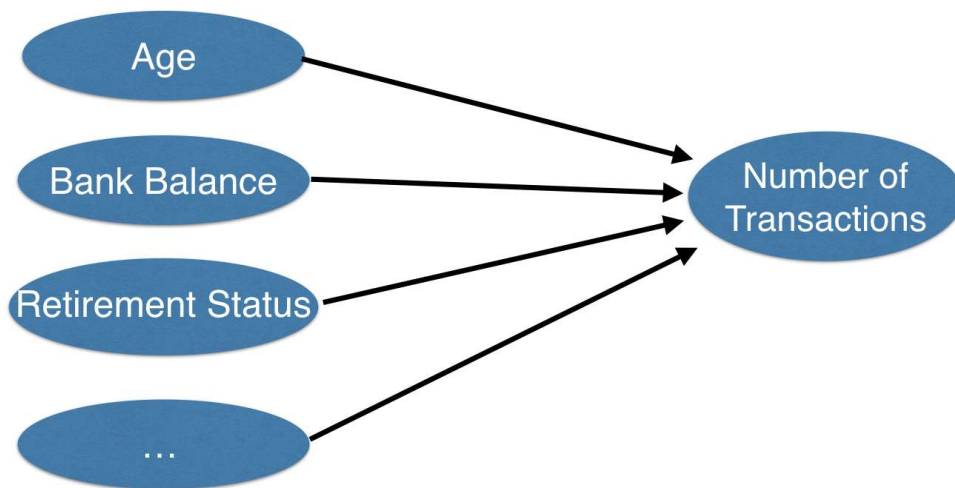


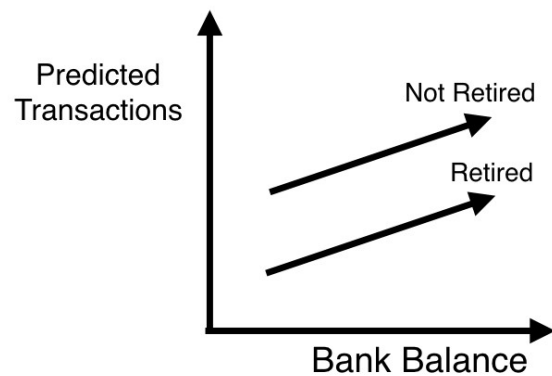
Imagine you work for a bank

- You need to predict how many transactions each customer will make next year

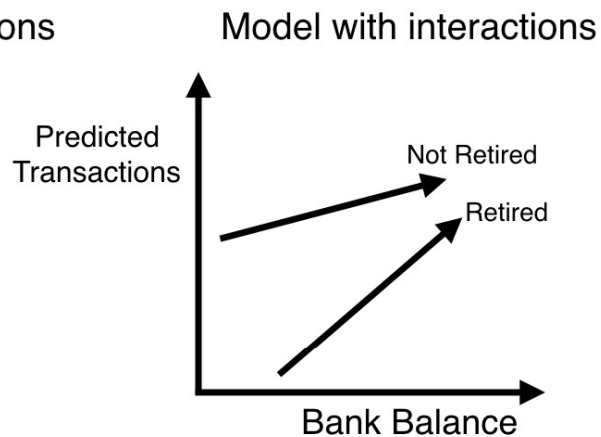
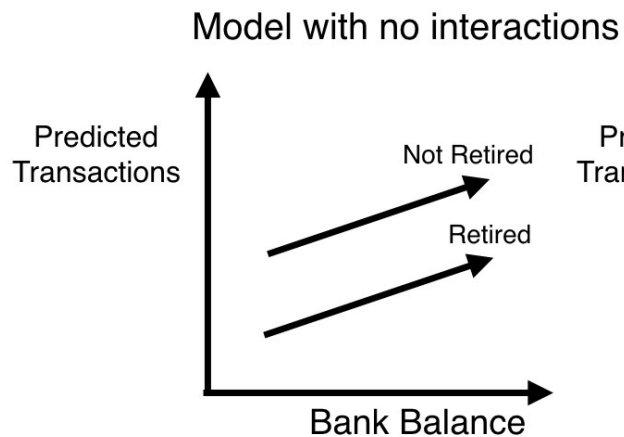
Example as seen by linear regression



Example as seen by linear regression



Example as seen by linear regression



Build and tune deep learning models using keras

```
import numpy as np
from tensorflow.keras.layers import Dense
from tensorflow.keras.models import Sequential
predictors = np.loadtxt('predictors_data.csv', delimiter=',')
n_cols = predictors.shape[1]
model = Sequential()

model.add(Dense(100, activation='relu', input_shape = (n_cols,)))
model.add(Dense(100, activation='relu'))
model.add(Dense(1))
```

Interactions in neural network

