**Gradient Descent - Combined Cycle Power Plant**

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Combined Cycle Power Plant dataset contains 9568 data points collected from a Combined Cycle Power Plant over 6 years (2006-2011), when the power plant was set to work with full load. Features consist of hourly average ambient variables Temperature (T), Ambient Pressure (AP), Relative Humidity (RH) and Exhaust Vacuum (V) to predict the net hourly electrical energy output (EP) of the plant.

You are given:

1. A Readme file for more details on dataset.

2. A Training dataset csv file with X train and Y train data

3. A X test File and you have to predict and submit predictions for this file.

import pandas as pd

from sklearn.ensemble import ExtraTreesClassifier

from sklearn.cross\_validation import cross\_val\_score

train\_df = pd.read\_csv("train.csv")

et = ExtraTreesClassifier(n\_estimators=100, max\_depth=None, min\_samples\_split=1, random\_state=0)

columns = ["Fare", "Pclass"]

labels = train\_df["Survived"].values

features = train\_df[list(columns)].values

et\_score = cross\_val\_score(et, features, labels, n\_jobs=-1).mean()

print("{0} -> ET: {1})".format(columns, et\_score))