Project 4 Proposal

Title: Email Spam Detection

Industry Focus: Custom

Problem: Identifying email spam

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Tools:

- Python Pandas

- Python Matplotlib
- HTML/CSS/Bootstrap
- Database to Load:

Roles:

Machine learning models

Datasets to be used:

- https://www.kaggle.com/code/mfaisalqureshi/email-spam-detection-98-accuracy/data
 - Word count of spam email
 - Confusion matrix
- https://www.kaggle.com/datasets/balaka18/email-spam-classification-dataset-csv
 - Count of common words in a spam email
- https://www.kaggle.com/datasets/ozlerhakan/spam-or-not-spam-dataset
 - o 2500 ham and 500 spam emails
- https://archive.ics.uci.edu/ml/machine-learning-databases/spambase/
- https://www.kaggle.com/datasets/uciml/sms-spam-collection-dataset
 - 425 SMS spam messages was manually extracted from the Grumbletext Web site
 - A subset of 3,375 SMS randomly chosen ham messages of the NUS SMS Corpus (NSC)
 - list of 450 SMS ham messages collected from Caroline Tag's PhD Thesis available at [Web Link]
 - Finally, we have incorporated the SMS Spam Corpus v.0.1 Big. It has 1,002 SMS ham messages and 322 spam messages and it is public available at: [Web Link]

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Goal: Create a website where you input text and the machine learning can predict if the text is spam.