

Machine Learning Project Proposal

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This is our machine learning project abstract. TODO

1 Ideas (Delete this before submission TODO)

1.0.1 Guess What Object

Origin: <http://deeplearning.net/datasets/> Data Link: http://www.vision.caltech.edu/Image_Datasets/Caltech256/
Data Link2:<http://www.cs.utoronto.ca/~kriz/cifar.html>

Idea: Choose a dataset with various classes. Based off image, which is which.

ML Technique: Neural Network

1.0.2 Guess Number Based Of House Address

Origin: <http://deeplearning.net/datasets/> Data Link: <http://ufldl.stanford.edu/housenumbers/>

Idea: Given a image of a number that is on a house guess the number. The numbers are slanted & colored.

ML Technique: Neural Network

1.0.3 Guess Object (Even if its rotated)

Origin: <http://deeplearning.net/datasets/> Data Link: <http://www1.cs.columbia.edu/CAVE/software/softlib/coil-100.php>

Idea: Given a series of objects that are rotated guess the object.

ML Technique: Neural Network

1.0.4 Salaries for Professors:

Origin: [http:](http://vincentarelbundock.github.io/Rdatasets/datasets.html)

[//vincentarelbundock.github.io/Rdatasets/datasets.html](http://vincentarelbundock.github.io/Rdatasets/datasets.html)

CSV Link: [http://vincentarelbundock.github.io/Rdatasets/
csv/carData/SLID.csv](http://vincentarelbundock.github.io/Rdatasets/csv/carData/SLID.csv)

Idea: Find trends in professor salary. Given rank, discipline, yrs.since.phd, yrs.service, and/or sex Guess a professors salary

ML Technique: Regression

1.0.5 Salaries:

Origin: [http:](http://vincentarelbundock.github.io/Rdatasets/datasets.html)

[//vincentarelbundock.github.io/Rdatasets/datasets.html](http://vincentarelbundock.github.io/Rdatasets/datasets.html)

CSV Link: [http://vincentarelbundock.github.io/Rdatasets/
csv/carData/SLID.csv](http://vincentarelbundock.github.io/Rdatasets/csv/carData/SLID.csv)

Idea: With labels wages, education, age, sex, languages guessbassed off of.

ML Technique: Regression.

1.0.6 Iris Plant

Origin: <http://archive.ics.uci.edu/ml/datasets/Iris> Data

Link: [http:](http://archive.ics.uci.edu/ml/machine-learning-databases/iris/)

[//archive.ics.uci.edu/ml/machine-learning-databases/iris/](http://archive.ics.uci.edu/ml/machine-learning-databases/iris/)

Idea: There are 3 classes of iris plant. Guess which one is which based off the parameters.

ML Technique: Regression

2 DataSet Description

This is a description of our DataSet

2.1 DataSet URL

Here is where we got our dataset

3 Project Idea

This should be atleast two paragraphs!

4 Approach

Brief description of the steps you will take to move from concept to validated approach

5 Referenced Projects

5.0.1 Ref Project 1

Blurb & URL

5.0.2 Ref Project 2

Blurb & URL