The Complete Machine Learning & Data Science Bootcamp - Course Resources List

appbrewery.co/p/machine-learning-course-resources

Section 2: Predict Movie Box Office Revenue with Linear Regression

- the-numbers.com - Movie budgets and revenue data
- Try Jupyter Notebook Online (no installation)
- pandas.pydata.org - the Pandas data analysis library
- matplotlib.org - the Matplotlib graphing and plotting library

Section 3: Python Programming for Data Science and Machine Learning

- Install Jupyter with the Python Anaconda distribution
- The original research paper on test scores and LSD tissue concentration (for the more curious)
- Raw Experiment Data
- Exercise 1 Solution - Python Variables
- Exercise 2 Solution - Python Lists
- Exercise 3 Solution - Python Functions Part 1
- Exercise 4 Solution - Python Functions Part 2
- Exercise 5 Solution - Python Functions Part 3

Section 4: Introduction to Optimisation and the Gradient Descent Algorithm

- Symbolab.com - an online derivative calculator
- SymPy Homepage - a Python library for symbolic mathematics
- Exercise 6 Solution - Python Loops

Section 5: Predict House Prices with Multivariable Linear Regression

- load_boston() documentation - available through scikit learn's website
- scikit learn regression metrics documentation
- US inflation calculator

- Exercise 7 Solution - Conditional Statements

Section 6: Pre-Process Text Data for a Naive Bayes Classifier to Filter Spam Emails (Part 1)

- Spam Assassin data description
- VS Code - optional Text Editor (my current favourite)
- Atom - optional Text Editor
- Spam Assassin Public Corpus - the original email dataset source
- Detailed description of the email data
- XKCD on Unicode
- The Timewaster Letters by Robin Cooper
- jsonmate.com - visualise JSONs
- flatuicolors.com - colours that make pie charts look pretty
- www.nltk.org - Natural Language Toolkit (NLTK)
- Documentation on Python sets
- Word stemmers on nltk.org
- Martin Porter's (rather humorous) homepage - creator of the Porter Stemmer
- example.com - clear and beautiful HTML on the web. Right-click to view source
- BeautifulSoup - a tool to pull data out of HTML and XML files
- github.com/amueller/word_cloud - Andreas Mueller's WordCloud Github Repo
- WordCloud documentation
- Pillow documentation - a module for image manipulation module
- Colormap reference (Matplotlib)
- Font Awesome - free icons for masks
- Google Fonts - free fonts for your projects
- www.wordclouds.com - online word cloud generator
- What is mojibake?

Section 7: Train a Naive Bayes Classifier to Create a Spam Filter (Part 2)

- Laplace Smoothing (for the more curious)
- Numpy savetxt() documentation
- Numpy loadtxt() documentation

Section 8: Test and Evaluate a Naive Bayes Classifier (Part 3)

- Numpy .dot() product documentation
- Matplotlib marker types for data points
- Seaborn colour palettes for graphs and charts
- Color Lisa - curated colours from famous artists
- webmd symptom checker - the perfect tool for every hypochondriac?

Section 9: Introduction to Neural Networks and How to Use Pre-Trained Models

- Google Translate singing
- Google Colab Notebooks - getting started
- ModelZoo.co - list of pre-trained models
- TensorFlow Hub - list of pre-trained models
- Sample Images for Image Classification
- Unsplash.com - high quality, royalty free images
- Pre-trained Models available through Keras
- Keras InceptionResNetV2 documentation
- Keras models and their methods
- Keras VGG19 documentation
- Google Blog Post on NasNet and Image Classification

Section 10: Build an Artificial Neural Network to Recognise Images using Keras and Tensorflow

- Canadian Institute for Advanced Research (CIFAR)
- CIFAR 10 Dataset and Description by Alex Krizhevsky
- Keras Activation Functions
- Keras Optimizers
- Python strftime() documentation
- Fitting a Keras Model
- Keras Dropout Layer documentation
- predict() method documentation
- evaluate() method documentation
- matplotlib colormaps - examples
- Python itertools - efficient looping

Section 11: Use Tensorflow to Classify Handwritten Digits

- The MNIST Database
- Numpy eye() documentation
- Tensorflow Placeholder documentation
- Tensorflow matmul documentation
- Tensorflow relu documentation
- Tensorflow softmax documentation
- Softmax Cross Entropy with Logits
- Adam Optimizer
- MNIST handwritten digit database model comparison

Section 12: Serving a Tensorflow Model through a Website

- TF Session Object documentation
- Saved Model documentation
- Saved Model load() documentation
- Session run() documentation
- Model conversion
- Tensorflow.js converter
- Managing environments with Anaconda
- Atom text editor
- VS Code
- MDN - Web Development Documentation
- W3 Schools
- FlatUI Colors
- Getting started with Tensorflow.js
- Favicon Generator
- MDN events
- W3 Schools HTML Canvas reference
- Download the OpenCV.js file
- Geometric transformations for images
- Contour Features & the Centre of Mass
- Javascript map() documentation
- Tensorflow.js operations
- Tensorflow.js dataSync
- Window setTimeout() documentation
- Github Pages