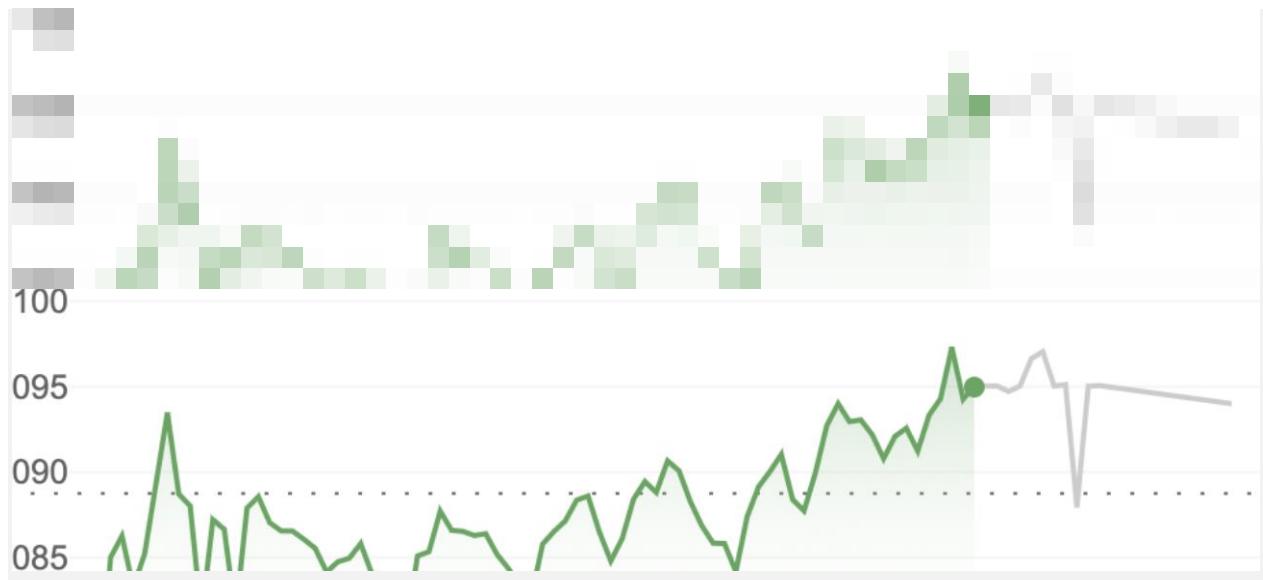


Best data science projects to finish in a weekend



Welcome back! Data science is a massively growing field that seems to be getting more important by the day, so let's talk about some of the best data science projects you can finish in a weekend! These range in complexity but all of these do require some experience with R or Python, as long as you have some experience with both you should be able to develop most if not all of these projects, with that out of the way let's get started!

Predicting Stock Prices With Python



Next up we have a bit of a fun project, this project enables us to predict prices of stocks by using a very popular ML package SciKit-Learn, check out this project below:

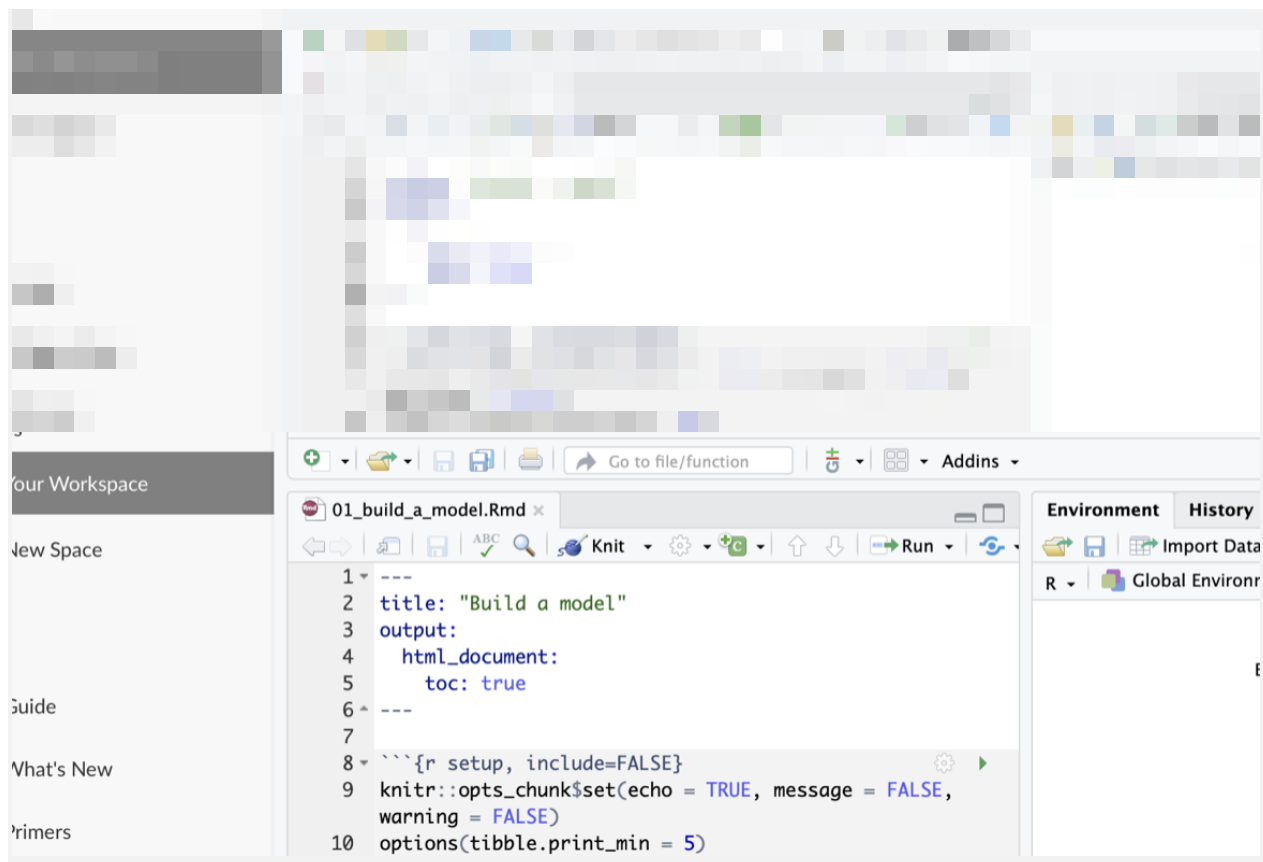
How to predict stock prices with Python + Machine Learning!

One of my favorite things to do with Machine Learning is forecasting, this pretty much means predicting the future with...

preettheman.medium.com

This project covers using historical stock data to essentially predict the future price, this is a great project for those trying to do some predictive analysis. At the end of the project we also plot these points using matplotlib, another very important package you should probably know about, this is a great introduction to SciKit-Learn.

Machine Learning With R + Tidymodels



Finally we have a very basic machine learning project with R and tidymodels, this project breaks down the basics of machine learning in R, we also develop a machine learning model as well, check out the project below:

Let's do some machine learning with R

Welcome back! R is a great programming language for data science, i've personally used this language heavily during my...

preettheman.medium.com

Building An Image Classifier With Python + YOLO / Darknet



Next up we have an image classifier project, this project allows us to use some existing datasets to predict what could be in an image, to view this project check out the link below:

Let's build an object detector using Python + Machine Learning!

Welcome back! Whether you're an experienced machine learning engineer or a beginner, building out an object detector is...

preettheman.medium.com

This project relies on YOLO & Darknet, these are things you should definitely be familiar with as a machine learning engineer. This project also covers importing / uploading data to the cloud, this is another very important thing a programmer should know how to do, this is an awesome little project to understand image classification a bit more.

Building a ML Model With Python + TensorFlow



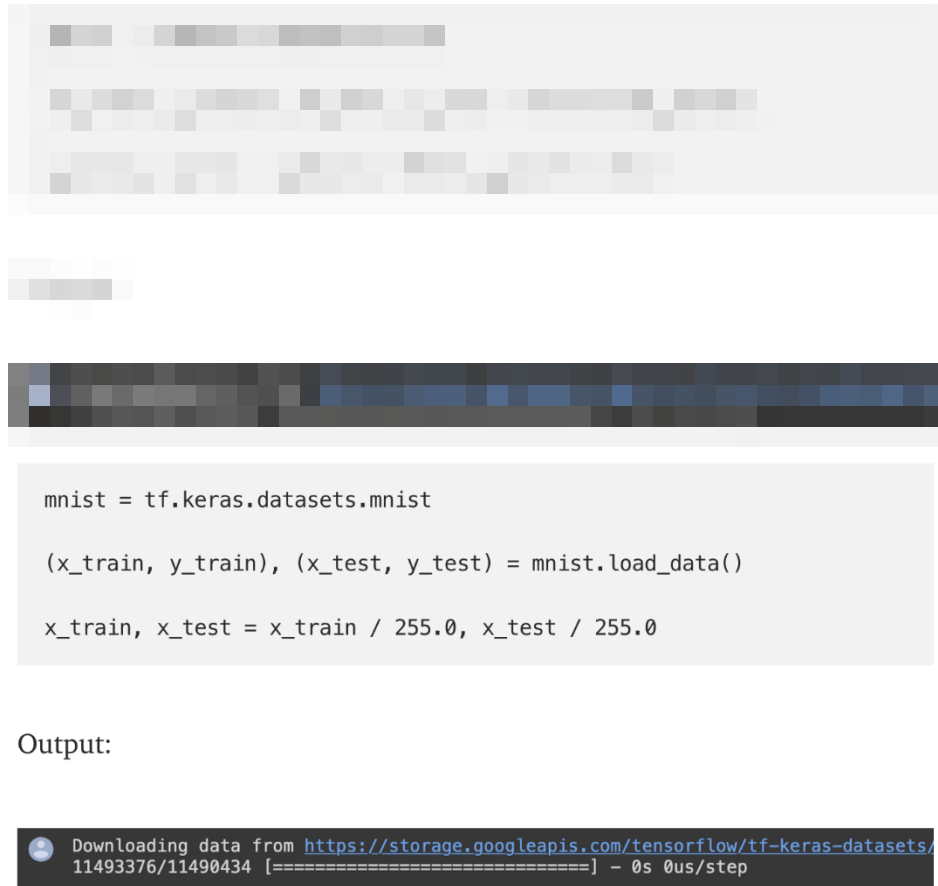
Starting off we have this basic introduction to machine learning with TensorFlow, you can view this project down below:

A Very Basic Introduction To Machine Learning With TensorFlow

When I was first learning about machine learning, I was always intimidated by certain questions like “what programming...

preettheman.medium.com

This project breaks down the very basics of machine learning / different components of ML. We then build out a very basic project using the very popular MNIST dataset:



```
mnist = tf.keras.datasets.mnist

(x_train, y_train), (x_test, y_test) = mnist.load_data()

x_train, x_test = x_train / 255.0, x_test / 255.0
```

Output:

```
Downloading data from https://storage.googleapis.com/tensorflow/tf-keras-datasets/11493376/11490434 [=====] - 0s 0us/step
```

We then go over the standard functions within TensorFlow, this includes using keras, .fit and the evaluate function as well, this is definitely a great introduction to machine learning with TensorFlow.

There you have it! Those are just a few of the best data science projects I developed using Python / R, did you build out any of these projects? I would love to hear your thoughts on these projects!