

About Me



Website: http://thepythiccoder.com

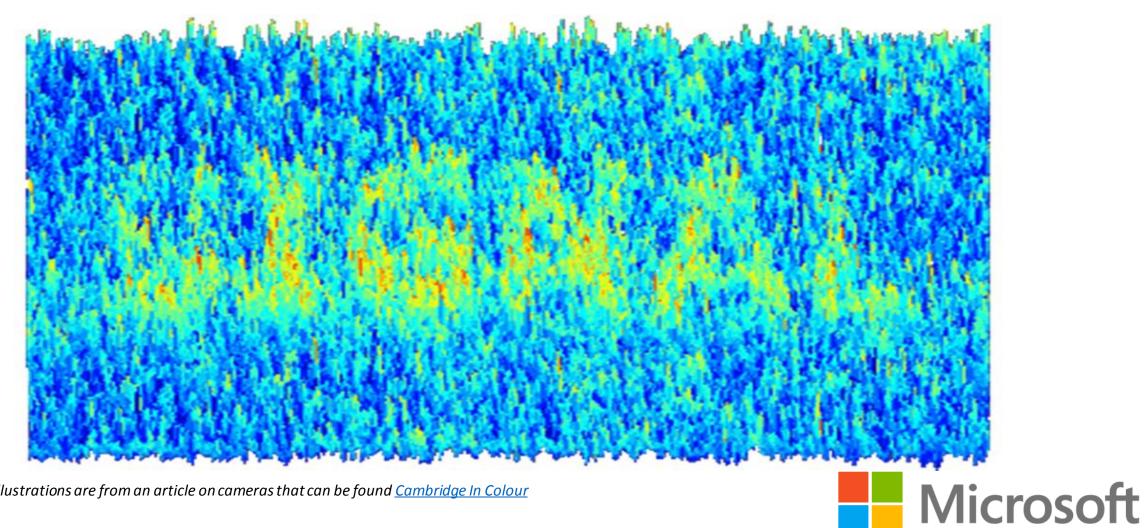
■ Twitter:@pythiccoder

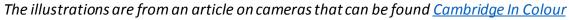
Github: <u>aribornstein</u>



Part 1: Experimentation

Signal and Noise





Signal and Noise





What does this look like?



350,000,000



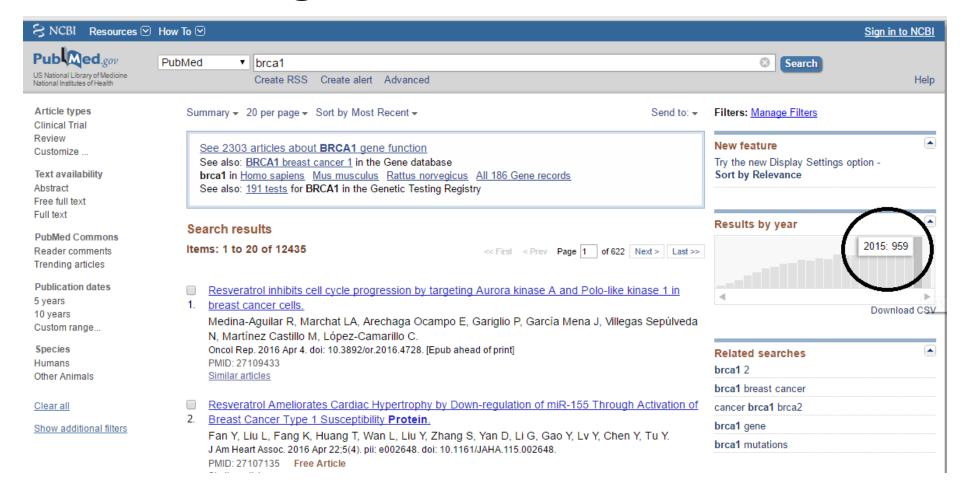


The amount of new data is overwhelming



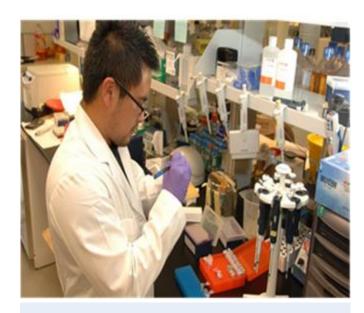


For the average doctor.





Medical Research Types



Basic



Clinical



Translational



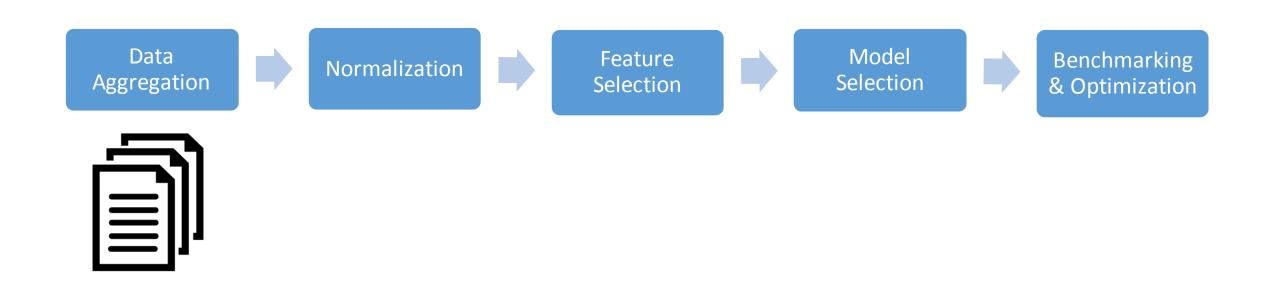
Classifying Genetic literature



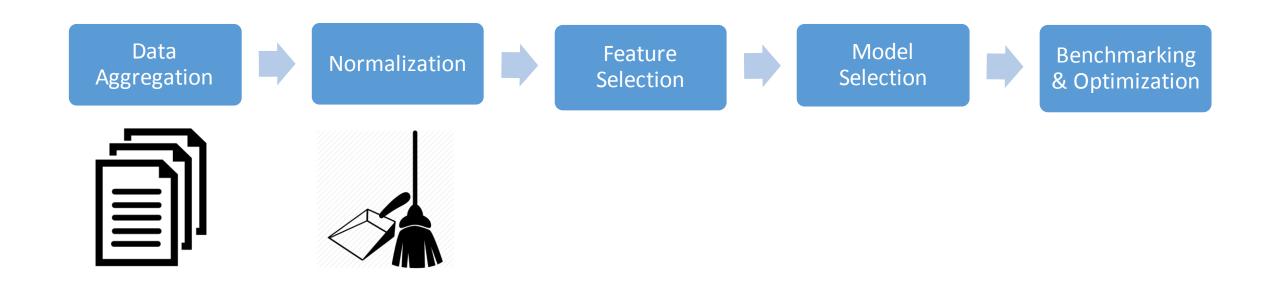




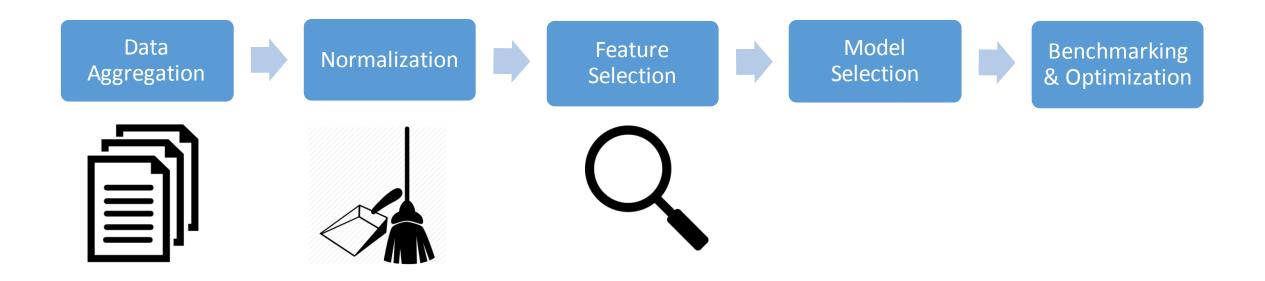




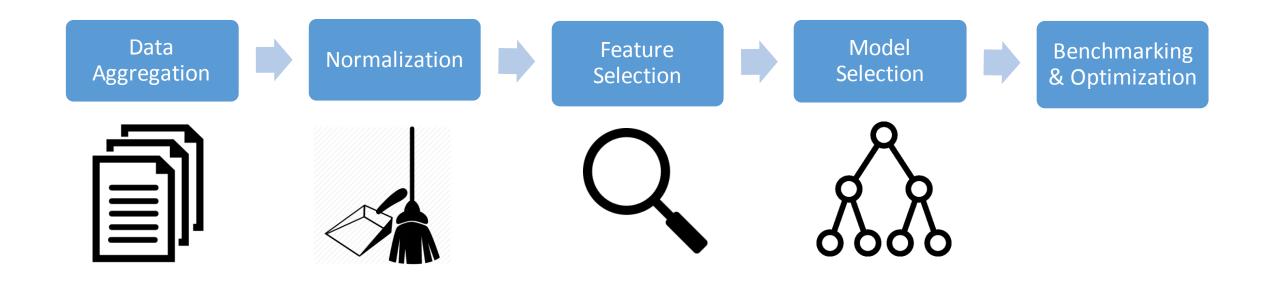




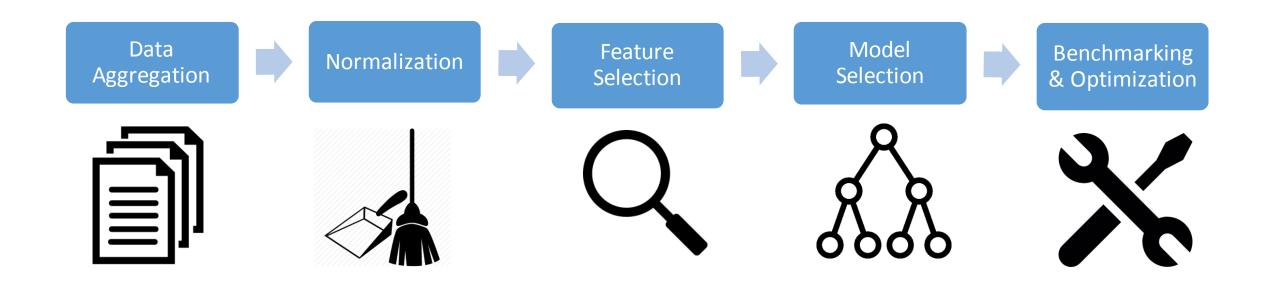






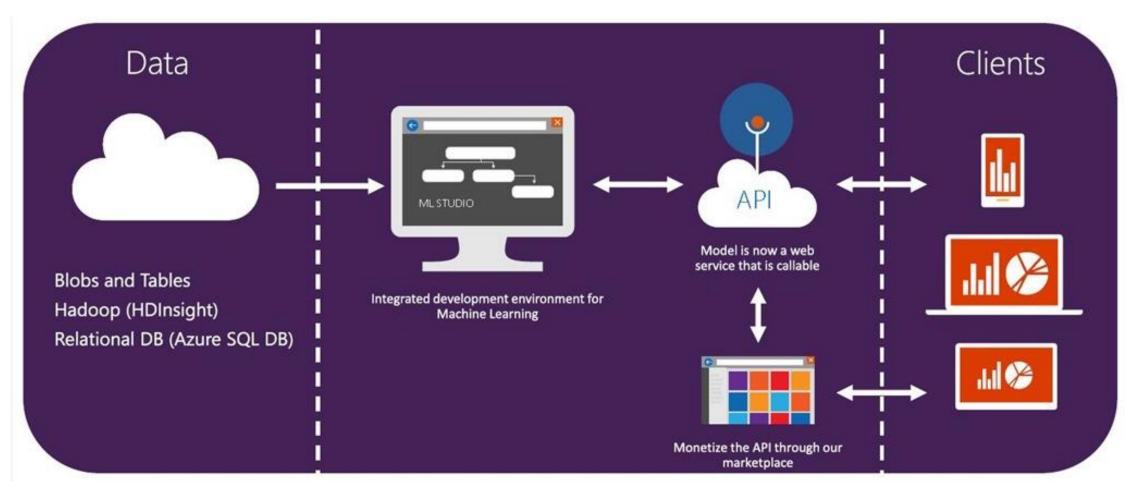






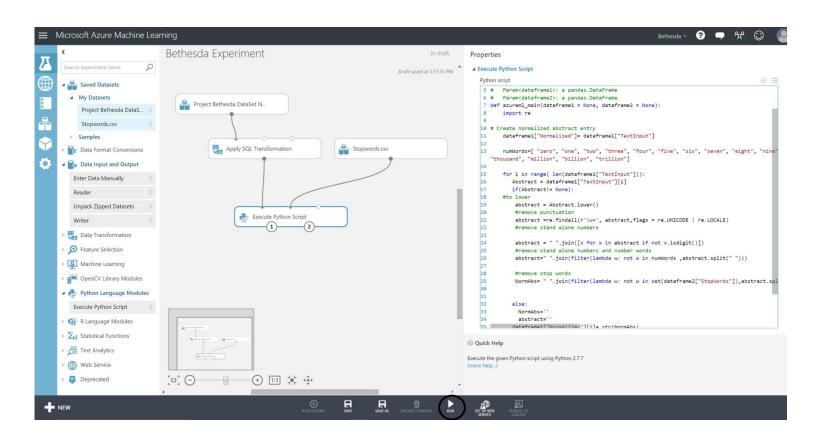


Azure ML





Using Experiments to Augment and Operationalize my code





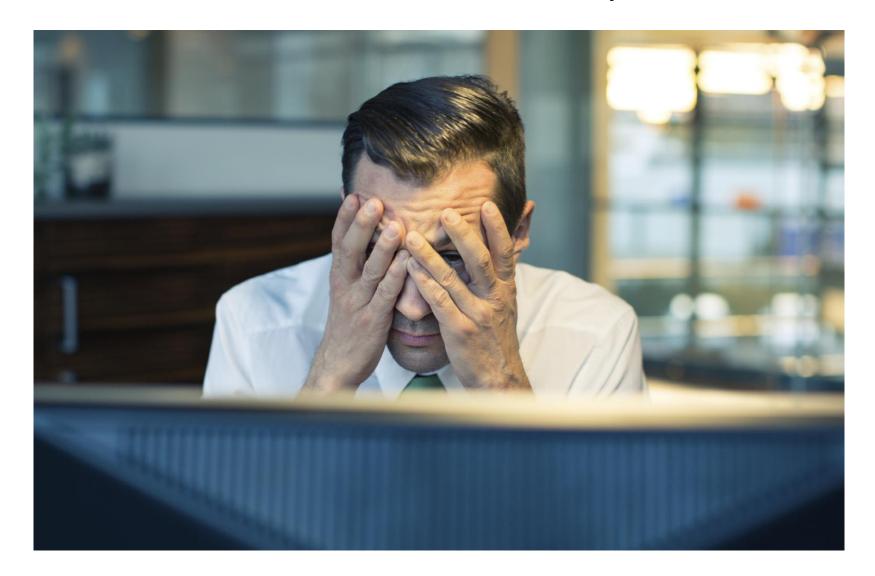
Azure ML Workbook Demo

Part 2: Production

Great so now I have a SciKit Learn model how can we push it to production?



Production Process today





Pushing my code to production in python with Azure MI

```
@services.publish('workspace_id', 'workspace_token')
@services.types(abstract = str)
@services.returns(list)
def classify(abstract):
return clf.predict(abstract)
```



That's easy but what's in it for me?

Scalable Restful and Swagger Endpoints

Auto generated documentation

Sample Code and Excel integration

Monetization through the azure marketplace



Azure ML Studio Demo

Recap



Recap

 Pandas and SciKit learn provide valuable tools for building machine learning solutions



Recap

 Pandas and SciKit learn provide valuable tools for building machine learning solutions

 Azure ML provides mechanisms to augment these tools and operationalize your code



Questions



Resources

- MVA Getting Started with Microsoft Azure Machine Learning
- Azure Machine Learning (FAQ) Types
- Blog: TechNet Machine Learning Blog
- Module Descriptions: Machine Learning Module Descriptions
- Project Bethesda: Research Classification Model



Using Azure ML as a Workbook Service



Using Experiments to Augment and Operationalize my code

