Accelerate Curriculum Week by Week

**Week 0- SQL**

Dive into the fundamentals of SQL, an essential language for the data science industry.

**Week 1- Intro to Python, expression, logical statement, Loops**

Spin up Jupyter notebooks in Google Codelabs, perform math functions, variables, and expressions in Python.

**Week 2- Loops, numpy**

Create loops, learn the basics of numpy (creation of arrays, math functions, and data manipulation).

**Week 3- numpy**

Spend some more time manipulating data with numpy, learning the difference between lists and arrays.

**Week 4- Pandas**

Load data files and get an introduction to Pandas and more complex data manipulation. Begin describing and plotting data.

**Week 5- Functions**

Write basic Python functions, putting together skills from the past 4 weeks to begin to write more complex functions.

**Week 6- numpy, Pandas, functions**

Put numpy, Pandas, and Python functions together to solve business problems.

**Week 7- Intro to Machine Learning, regression**

Combine skills from the past several weeks in training and testing a model and getting familiar with regression, the foundation for estimating relationships between independent and dependent variables.

**Week 8- Decision trees**

Train decision tree models, one of the essential modeling techniques, and learn how to build decision trees from scratch.

**Week 9- Random forest and Clustering**

Build random forest and cluster models, coding and interpreting the results of more complex and commonly used techniques.

**Week 10- End-to-end machine learning modeling (regression and decision tress, random forest- sklearn)**

Use sklearn to train and test multiple models, amplifying the extent of the coding, data manipulation, and machine learning skillsets you have learned in the past 9 weeks to create an end-to-end data science pipeline.

**Week 11- Begin project- Learn more modeling techniques**

Add time series analysis to your machine learning toolkit. Begin your final project for the bootcamp, working on a real, industry machine learning problem.

**Week 12- Project work complete**

Continue your machine learning project, utilizing expert knowledge from instructors and mentors.

**Week 13- Interview prep**

Learn how to interview for data scientist jobs like a champion, reviewing exercises and technical questions, getting feedback from established mentors from the industry.

**Week 14- Final presentation**

Present your final data science project to fellow students and instructors! Learn from other peoples’ projects