

# Introduction to Machine Learning

## Lab 1: Account Set-Up and Python Basics

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## Accounts Set-Up

1. **UT Austin Account:** Log into the lab machine with your UT EID and password. To do so, you will first need to set up an iSchool Account which can be requested [here](#).
2. **Microsoft Azure Notebooks:** We will use Microsoft Azure throughout our course for our computing resources. Please create an account at the following [link](#) to gain access to your initial Python environment of Microsoft Azure Notebooks.

## Introduction to Python with Interactive Python

3. In your [Microsoft Azure Notebooks](#), create an “IntroToML” folder and create a new “Python 3.6” Notebook. You now will be able to efficiently run code in a browser. You can learn more about Microsoft Azure Notebooks [here](#).
4. Work through tutorials to practice basic programming skills within your interactive Python environment; e.g., variables, loops, comments, functions, and arrays. We will go through the following during class:
  - [Make Your Own Neural Network by Tariq Rashid](#): pages 107-122

Please note that many additional tutorials are freely available. If you are not familiar with programming or Python, please gain more experience with these after class; e.g.,:

- [Microsoft Azure Sample: Introduction](#)
- [Microsoft Azure Sample: Basics](#)
- [Python Tutorial](#)

## Introduction to Working with Real Datasets

5. Follow the [machine learning tutorial](#) with code at the following [link](#): pages 5-19. Please note this uses one of many freely-shared datasets listed at the following [link](#).