## "Advanced Python Programming for Machine Learning Projects"

**Instructor: Ernest Bonat, Ph.D.** 

Senior Software Engineer

**Senior Data Scientist** 

ebonat@15itresources.com

Cell: 503.730.4556

## 2. Data Visualization and Pre-processing 2

GitHub: https://github.com/ebonat/intel\_session\_3

**Data Science Two Main Tasks:** 

1	<b>Data Pre-processing (Cleansing)</b>	60% - 70% work
2	Data Analytics	40% - 30% work

Data Pre-processing very important task. Be careful with "Garbage IN – Garbage OUT"

- 1.Create a new Python environment folder name intel\_data\_preprocessing\_2
- 2.Install latest Python, numpy, pandas and scikit-learn libraries
- 3.Create a Python project intel \_data \_preprocessing\_2
- 4.Create a Python file version.py to print the versions
- 5.Create a Python file data\_preprocessing\_2.py file. Copy the following code:

import sys

import pandas as pd

import numpy as np

import sklearn

import scipy

```
if __name__ == ' __main__':
print("Python: {}".format(sys.version))
print("NumPy: {}".format(np.__version__))
print("pandas: {}".format(pd.__version__))
print("SciPy: {}".format(scipy.__version__))
print("scikit-learn: {}".format(sklearn._version_))
email = np.array(["ernest.bonat@gmail.com"])
df_data = pd.DataFrame(data=email, columns=["email"])
print(df_data)
```

## Follow CHRIS ALBON site (<a href="https://chrisalbon.com/">https://chrisalbon.com/</a>) sessions:

- 1. Preprocessing Structured Data
- 2.Data Wrangling

Follow the Instructor and let's write good Python code!