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DATA SCIENCE USING PYTHON
Week 1

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LET'S INTRODUCE OURSELVES!!

- Work-ex
- Company
- Motivation behind joining this course

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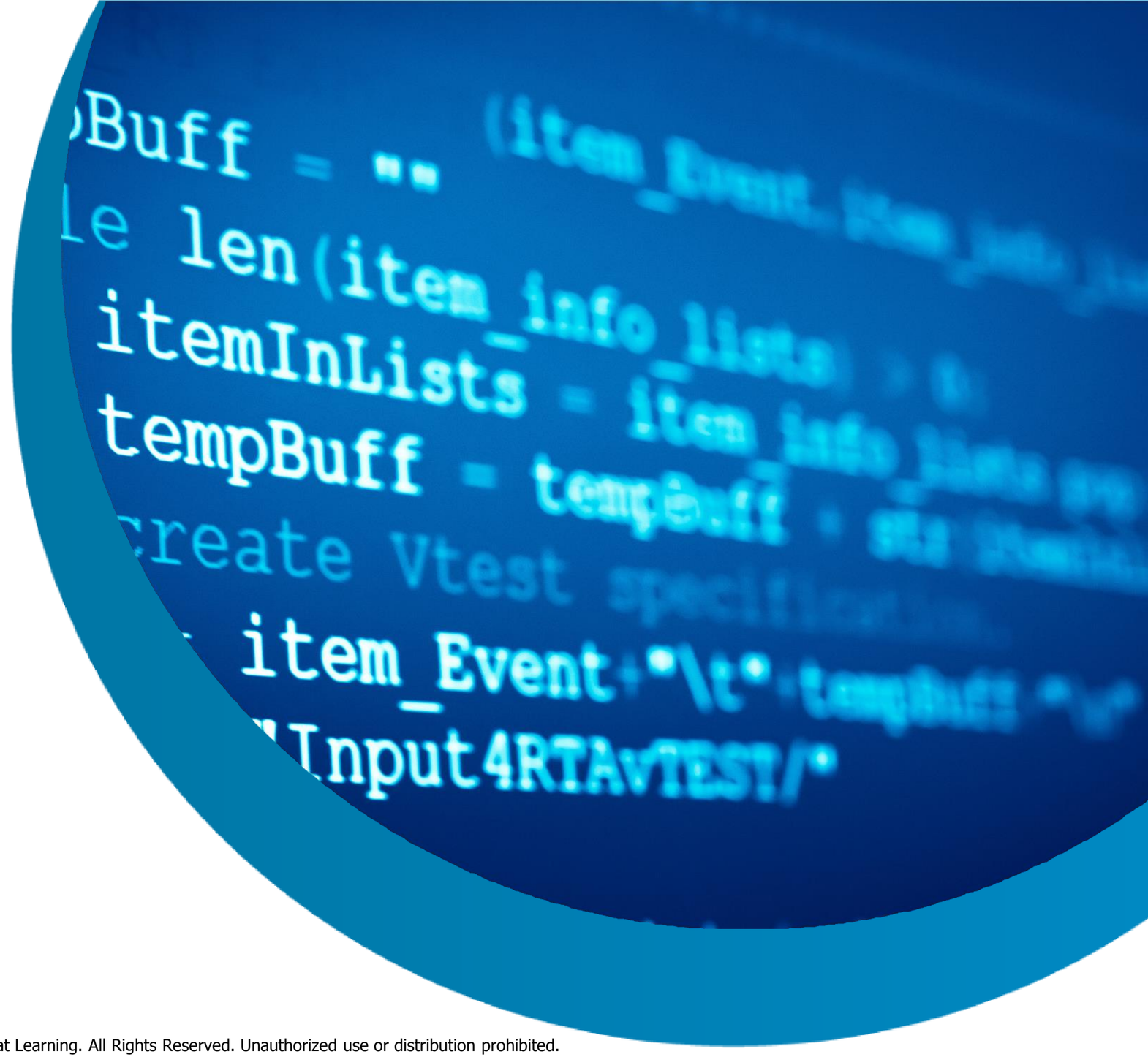
LEARNING OBJECTIVE OF THIS MODULE

- Basic Working proficiency in Python
- Basic Data-Manipulation using Python
- Basic Data-Visualization using Python



LET'S SET SOME GROUND RULES

- Come prepared for these sessions by watching the videos.
  - Concepts will be covered in the videos.
  - Hands-On Application will be covered in Mentor Sessions.

- Submit all assignments on time.

- Let's be punctual & respect each other's time.

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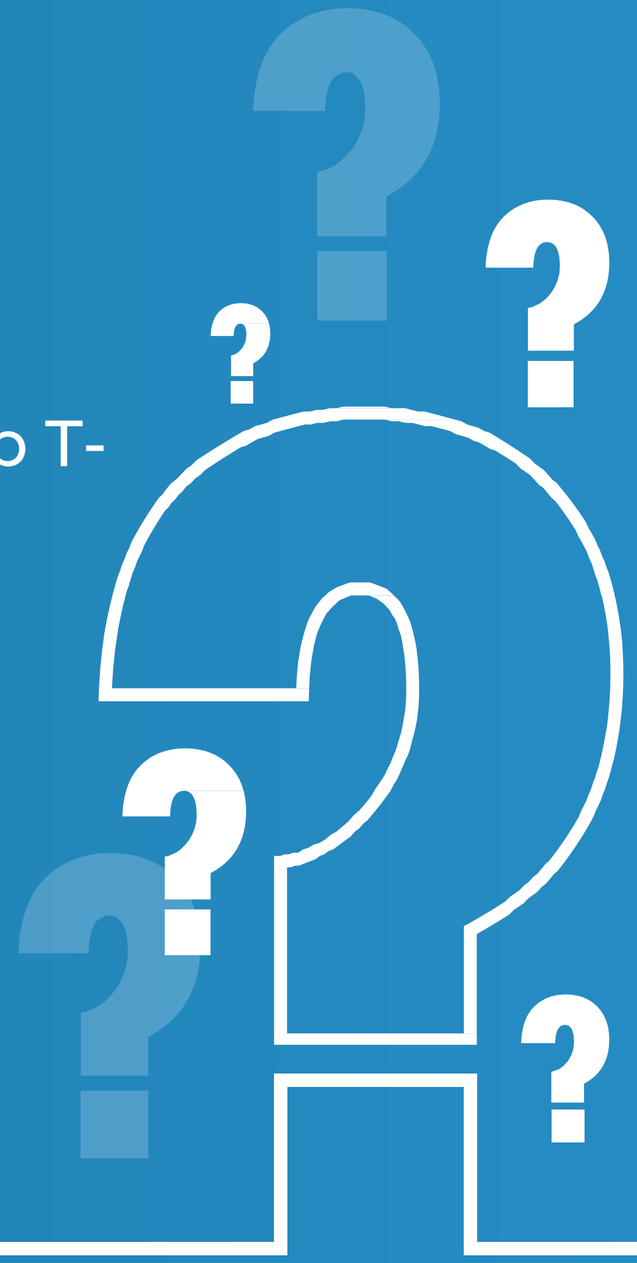
TRY ANSWERING THE FOLLOWING

- Who will be the winner of upcoming Cricket World Cup T-20?
- Can you predict when an employee will resign from his/her organization?
- Can you predict how many comments a user generated post on Twitter is expected to receive in the given set of hours?
- Can you predict which client will default the loan payment based on the client's spending?
- Which stock will give >30% returns in the next 6 months?



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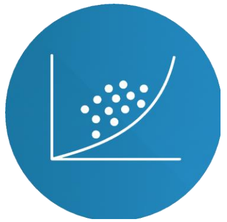
LEARNING OBJECTIVES OF THIS SESSION



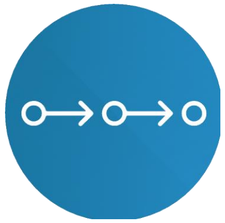
- Understand the big picture of Data Science & Analytics

- PGPDSBA Curriculum

- Introduction to Python

- Installation Steps

- Basic Operations in Python using a Case Study



- A journey of a thousand miles begins with a single step

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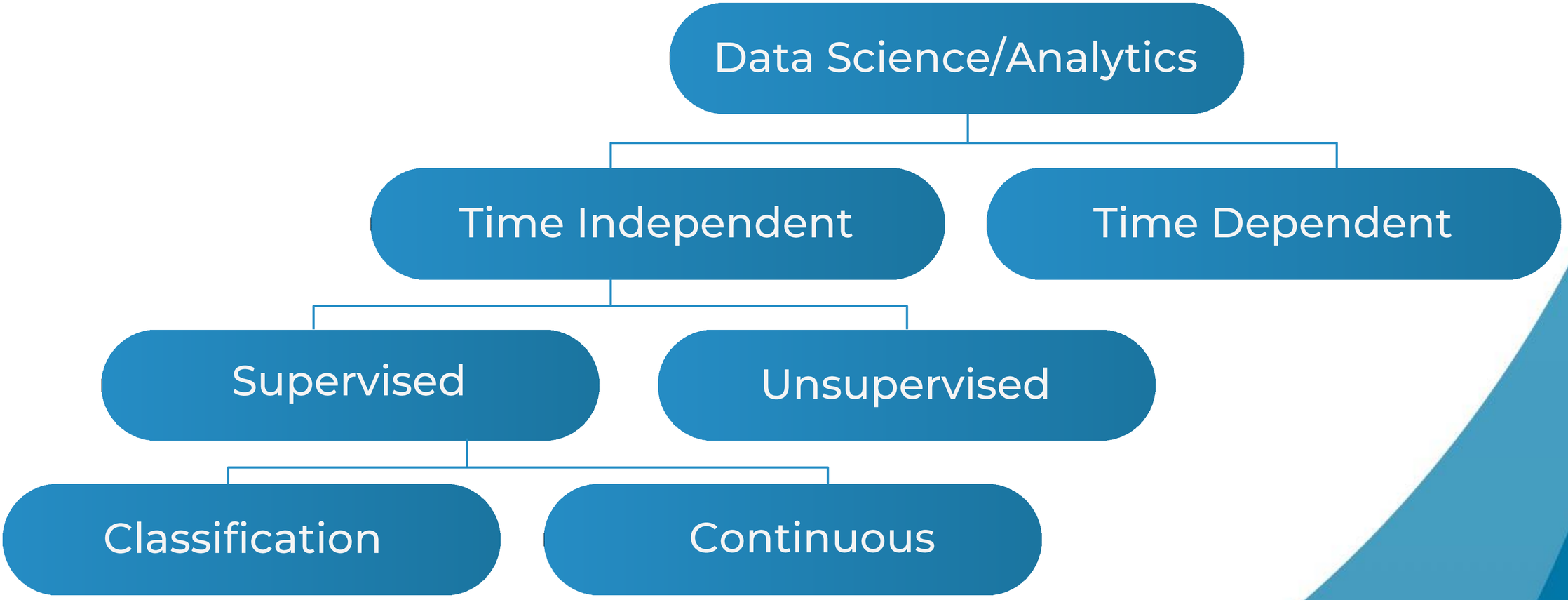
BIG PICTURE OF DATA SCIENCE & ANALYTICS



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DSBA CURRICULUM DESIGN

FOUNDATIONS

Python for Data Science(1/4)

Statistical Methods for Decision Making

CORE COURSES

Advanced Statistics

Data Mining

Predictive Modelling

Machine Learning

Time Series Forecasting

Data Visualization

SQL

DOMAIN APPLICATIONS

Financial Risk Analytics

Marketing Retail Analytics

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PYTHON (WHAT AND WHY ?)

- Python is the most popular programming language & choice for Data Scientist / Data Engineer across the world
- Very rich libraries & functions
- Community support
- Easy to deploy in production
- Support for all the new state of the art technologies

HOW MANY OF US HAVE ALREADY INSTALLED PYTHON & JUPYTER ON THEIR SYSTEMS ?

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INSTALLATION STEPS

Install using the instruction given in the below links:

1. Install Jupyter - http://jupyter.org/install
   Preferred installation method is through **Anaconda distribution.**

Install **Python 3.6 version**

2. Anaconda 5.2 For Linux Installer
   -https://www.anaconda.com/download/#linux
3. Anaconda 5.2 For macOS Installer
   - https://www.anaconda.com/download/#macos

3. Anaconda 5.2 For Windows Installer
   - https://www.anaconda.com/download/#windows

(You need to download the version compatible with your OS)

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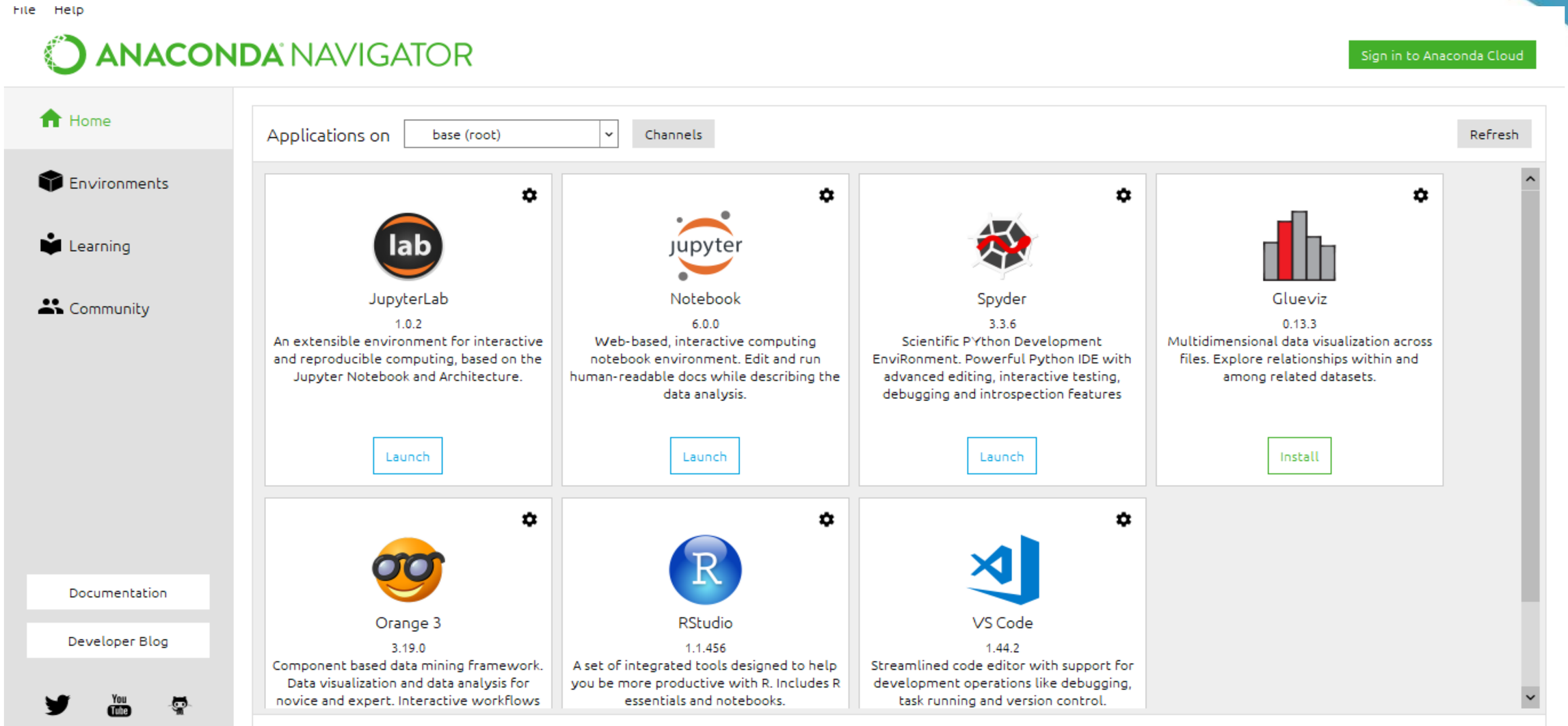
ANACONDA NAVIGATOR



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BY THE ALUMS

This program helped me add skills and tools to transition to analytics with 45% hike

Divya Sharma

Make a non-techie stand as a technology specialist. Thanks to the pedagogy, content and support provided by Great Learning

Sonakshi Pattnaik

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Basic Python Hands-on Exercise

- Data Types
- Conditional Statements and Loops
- User Defined Functions

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ANY QUESTIONS

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HAPPY LEARNING