

Compute Environments

ABOUT INNOTOMY

Innotomy is the science of exploring existing or new innovations that seek formal approach to derive meaning.

SERVICES

Consulting
Training
Teaching

TECHNOLOGY DOMAINS

Artificial Intelligence
Data Analytics
Data Science
Machine Learning
Deep Learning

ARCHITECTURES

- **Local** desktop / laptop
 - **CPU-only**
 - 64-bit Intel i5/i7 with 4-8 cores with 16 GB RAM
- **Cloud** configurations
 - Google Cloud, Amazon AWS, Crestle, Paperspace, FloydHub, Kaggle kernel
 - **CPU with GPU/TPU**
 - **NVIDIA**
 - Tesla K80
 - Tesla V100
 - Tesla P100
 - GeForce GTX1050
 - Quadro P5000
 - **Google**
 - TPU v2

OPERATING SYSTEMS

- **Linux Ubuntu** 16.04, 18.04 LTS

LANGUAGES

- **R** – Primarily suitable for data science, visualization and machine learning algorithms
- **Python** – Primarily suitable for deep learning
- **Julia** – Upcoming language for data science and machine learning
- **Swift / Skip / ...** - New alternatives to Python are being considered

LIBRARIES

- R base
- Anaconda Python 3.6.8
- Tensorflow 1.12
- Tensorflow 2.0 (experimental)
- PyTorch 1.0
- Keras 2.2.4
- Scikit Learn 0.20.2
- Numpy 1.16.2
- Pandas 0.24.1
- Matplotlib 2.1.2
- NVIDIA cuDNN 7.x and beyond

IDES

- R console
- R Studio
- Python console
- Spyder
- Jupyter Notebook
- **Jupyterlab**
- Julia REPL
- Swift REPL