Technology Stack

ARTIFICIAL / MACHINE INTELLIGENCE

- **Machine Learning/Deep Learning**
  - Tensorflow (Python)
  - Caffe (Python)
  - Mx-net (Python)
  - Microsoft Azure ML
  - Big ML
  - Scikit-learn (Python)
  - Theano (Python)
  - Microsoft Cognitive Toolkit (Python, C++)
  - Torch (Lua)
  - Neon (Python)
  - Keras (Python)
  - MatConvNet (MATLAB)
  - GraphLab
  - IBM Watson
  - Mocha (Julia)
  - H2O (R, Python, Java)
  - NVIDIA DIGITS (C++, Python)
  - Deeplearning4j (Java)
- **Text Mining**
  - GENSIM (Python)
  - NLTK (Python)
  - Numpy (Python)

BIG DATA

- **Data Storage and Management**
  - Hadoop
  - MongoDB
  - Cloudera
- **Data Cleaning**
  - OpenRefine
  - DataCleaner
- **Data Mining**
  - RapidMiner
  - IBM SPSS Modeler
  - Oracle Data Mining
- **Data Analysis**
  - Spark
  - MapReduce
  - Hive
- **Data Visualization**
  - Tableau
  - Plot.ly
  - Power BI
  - Qlik
  - SAS Visual Analytics
  - Birt

ANALYTICS

- **Programming Languages**
  - Python
  - R
- **Tools/Libraries**
  - OpenCV (Python, C++)
  - Pandas (Python)
  - Matplotlib (Python)
  - PyPI (Python)
  - Google Analytics API
  - Google Prediction API

HARDWARE

- NVIDIA Titan-X GPU
- NVIDIA Tesla P100 GPU
- NVIDIA Jetson TX1 (Inference Engine)
- Intel Nervana
- Google TPU

PROGRAMMING LANGUAGES

- Python
- C++
- Java
- JavaScript
- Lua
- Matlab
- Julia
- R

GLOSSARY

- **API:** Application Programming Interface
- **CUDA:** Compute Unified Device Architecture
- **GENSIM:** Generate Similar
- **NLTK:** Natural Language Toolkit
- **TPU**: Tensor Processing Unit
- **GPU**: Graphical Processing Unit

PLEASE NOTE

- In order to use this technology stack, we recommend starting from the programming language listing and selecting your preferred programming language. From there, you can select the appropriate AI/ML, big data or analytics tool to accomplish your task.
- These technologies are the most commonly used tools in the specified area.
- The list is not exhaustive and they are certainly more tools that are present for different use-cases.
- In order to add more technologies to this list, kindly submit a pull request.