Deep Water: Best Open-Source Deep Learning

Enterprise Deep Learning for Business Transformation

Deep Water = THE Deep Learning Platform

H2O integrates the top open-source DL tools



Native GPU support



is up to 100x faster than



Enterprise Ready

Easy to train and deploy, interactive, scalable, etc. Flow, R, Python, Spark/Scala, Java, REST, POJO, **Steam**

New Big Data Use Cases (previously impossible or difficult in H2O)

Image - social media, manufacturing, healthcare, ...

Video - UX/UI, security, automotive, social media, ...

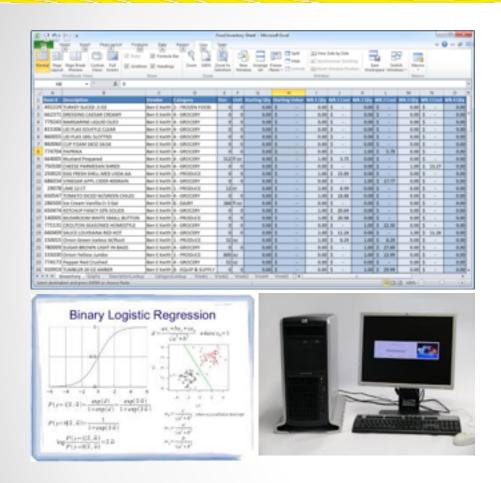
Sound - automotive, security, call centers, healthcare, ...

Text - NLP, sentiment, security, finance, fraud, ...

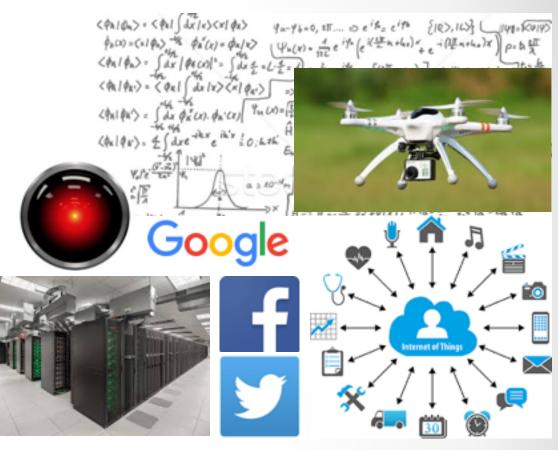
Time Series - security, IoT, finance, e-commerce, ...



More Data is Better! — Images, Video, Text, Logs, Streams, ...



Example: Fraud Prediction



Today

Tomorrow

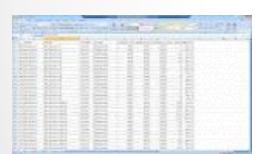
Better Data — Better Models — Better Results



Deep Water opens the Floodgates for state-of-the-art Deep Learning

H2O Deep Learning: simple multi-layer neural networks

1-5 layers MBs/GBs of data



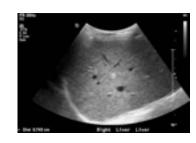


Limited to business analytics, statistical models (CSV data)



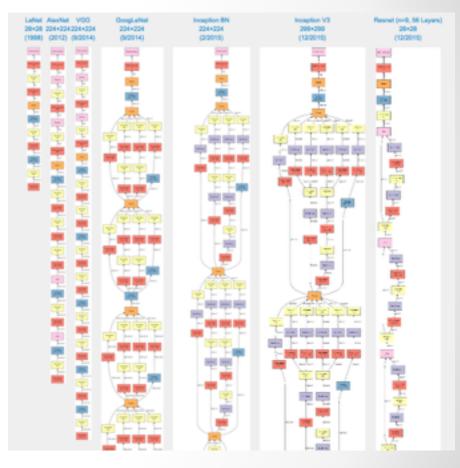
Deep Water: deep complex networks

5-1000 layers GBs/TBs of data



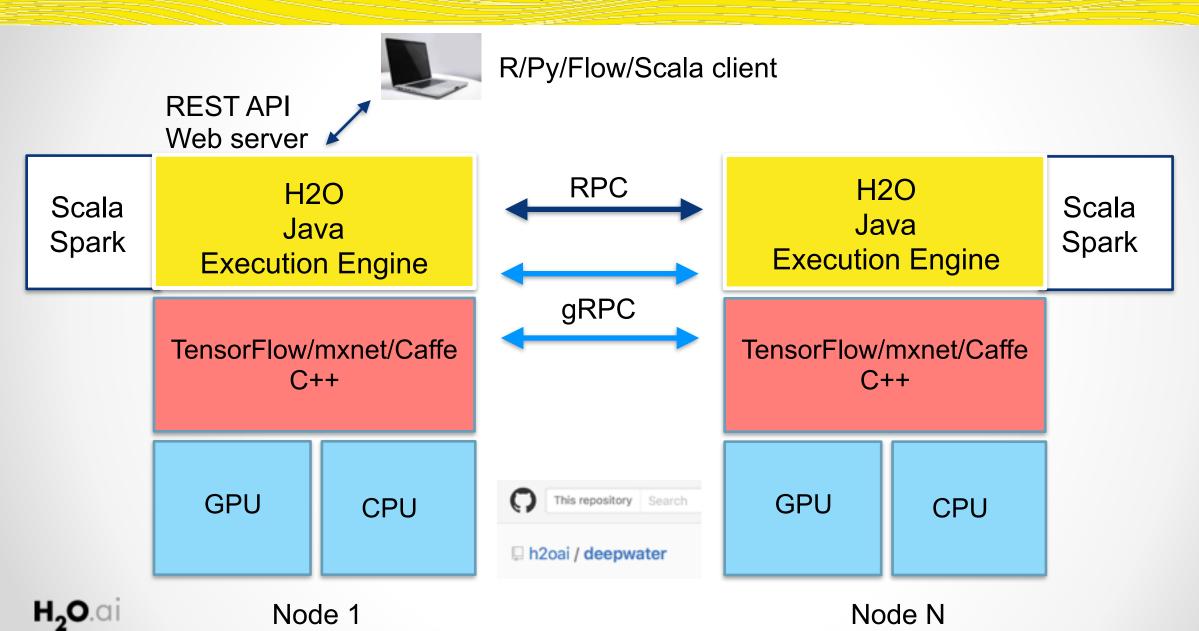






Large networks for big data (e.g. image 1000x1000x3 -> 3m inputs)

Deep Water Architecture



Demo: GPU Image Classification from Flow!

