

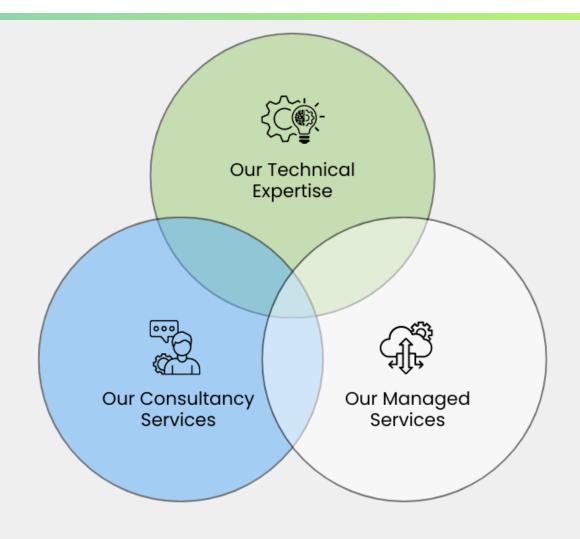
Training Al/Machine Learning Models for Predictive Analytics.

Anthony Osborn

About Intergence:

Founded in 2003, Intergence is a leading technology consultancy and IT-managed services provider, dedicated to solving complex digital and operational challenges. Our innovative, outcome-based solutions empower businesses to achieve their goals and drive operational excellence.

Headquartered in Cambridge, UK, we serve a global client base across various industries, delivering measurable results and build upon long-term partnerships.



intergence My background: 86,568 nce by mar stratiam Q Search. Overview 880 stratiam Overview stratiam **Stratiam Configuration Asset Monitoring** 55% F +2 Alerts 6 ☑ 8/15 **Client Onboarding** 30% 2 T +3 **Digital Transformation** Predictive Analytics (AI) W A # +2 ☑ 40/55 Jun 2 Jun 3 Jun 4 Jun 5 Jun 6 Timestamp **Network Bandwidth** Weekly ~ (\$ Dark Mode Predicted Parked Cars Temperature

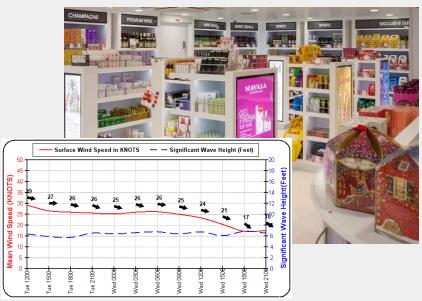
ML/Predictive Analytics as a subset of Al's tree:

- AI
 - ML
 - Predictive Analytics
 - Classification
 - Clustering
 - Reinforcement learning
 - Deep Learning
 - Natural Language
 - Generative Al
 - Computer Vision
 - Robotics
 - Etc...

Predicting the unpredictable:

- IOT (air quality) devices assisting LA firefirefighters to locate fire-source location (dyson)
- Heatwave data <=> advertising spend & corresponding fan sales (dyson)
- Wave height <=> onboard product sales (Intergence / well-known ferry operator)
- Parked cars in Cambridge (Intergence)
- IT Infrastructure Metrics [Service Desk Tickets, CPU, Network Bandwidth etc] (Intergence / various clients)



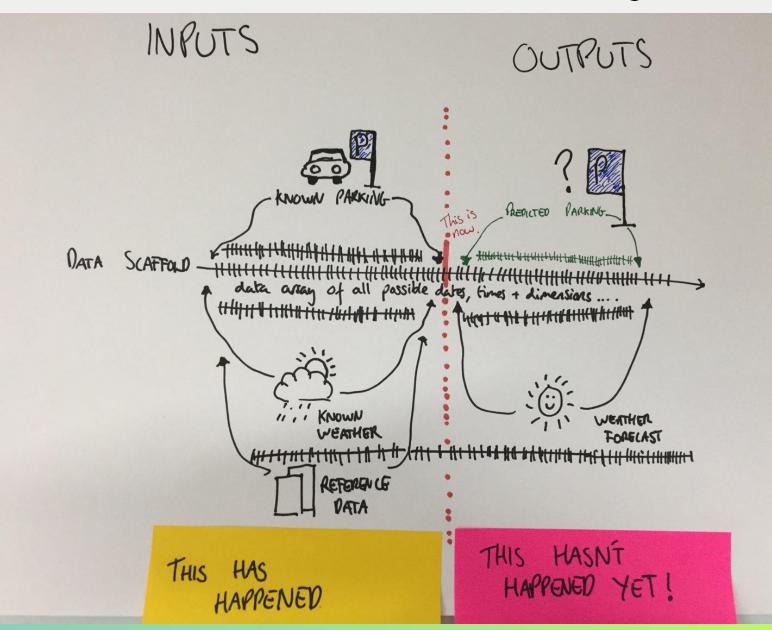


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Rules for setting up ML / Predictive Analytics on your data (The 3 min version!)

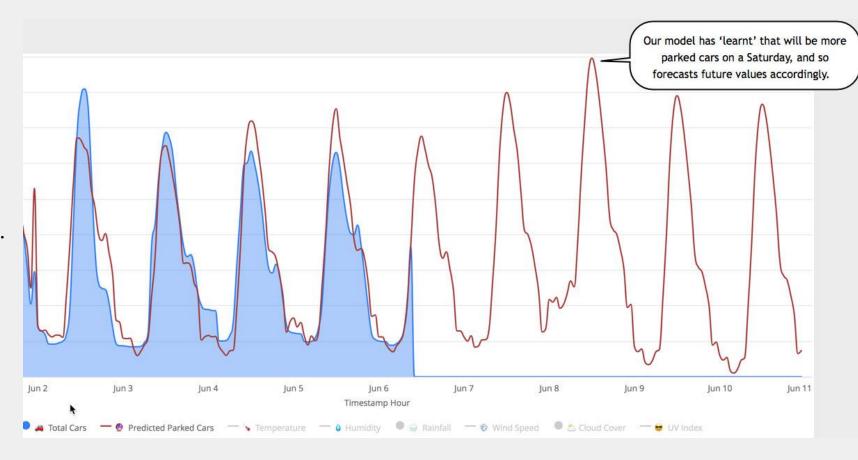
- Start with a hypothesis
- Clean/prep your data
- Build a data-scaffold
- Choose the right model
- Train your model
- Evaluate your model
- Refine your model

*all the above steps are 'human' activities. Al isn't that good yet!



On curated datasets ~90% prediction accuracy is possible:

- Example shows predictive analytics model for 'parked cars in Cambridge'.
- Red line show predicted parked cars blue area shows actual volumes.
- 90%+ accuracy (predicted vs actual) possible [on 48hr forward forecast].
- Predictors included calendar events, time partitions, traffic and weather data.
- Data model made possible via our expertise with data AND ability to connect to source data / APIs



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