



How to be Successful Right Away in your New Data Science Role

Lessons from Trenches

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By: Thomas Ott, PE, MBA

Agenda

- Introduction
- Are Data Scientists Born or Made?
- Building A Pathway to Success
- How H2O can help
- Q&A

Introduction

Introduction (About Me!)

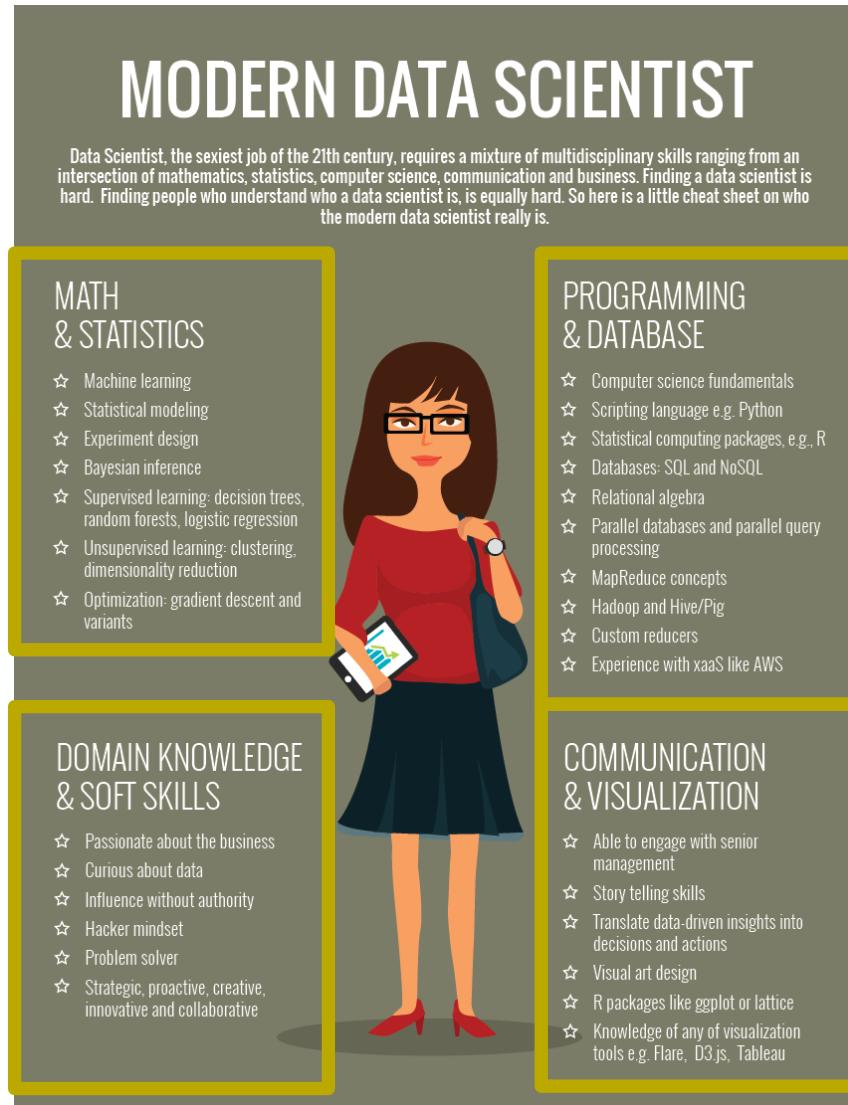


- Hold a BS in Civil Engineering and an MBA in Technology
- Worked for 20 years in the Transportation Industry
- The class that started it all “Data Mining for Managers”
- Switched to the Data Science/Machine Learning Startup World in 2014
- Currently a Senior Solutions Engineer for H2O.ai



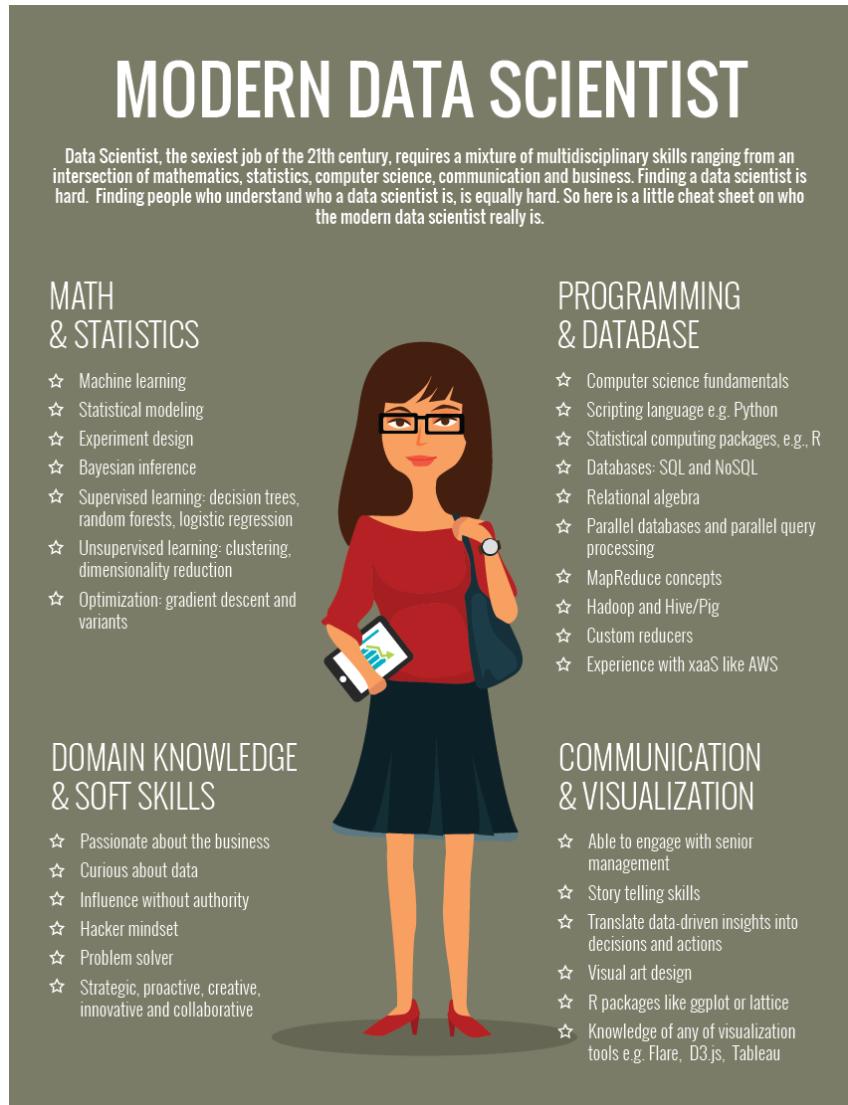
Are Data Scientists Made or Born?

Are Data Scientists Made or Born?



- Data Scientists have a solid foundation in Math & STEM related fields
 - Know How to Code
 - Visualization Wizards
-
- Domain Knowledge Might Be Easy But Soft Skills Are Hard

Are Data Scientists Made or Born?



Born Data Scientists

Made Data Scientists

Key: Softer Skills

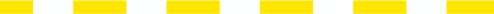
Classically Trained / Physics / Math / CS

Need Based / Learned to Code / "Fell Into It"

Curiosity / Learning / Passion

Building A Pathway to Success

Art, Philosophy, and Data Science?

- Rosemary Barnes Studied Engineering, Art, and Philosophy
- Engineering focused on Learning Core Concepts with a focus “Job Readiness”. 
- Arts and Philosophy focused on critical thinking and logic skills / application to a variety of issues / how they shape world view



<https://www.abc.net.au/news/2020-09-23/job-ready-relevant-university-degree-humanities-stem/12652984>

Function (Data Science) != Apply (Form)?

Building a Pathway to Success



- Your Work Matters ... But Ask How It Matters
- Your Work Needs to Align with a Business Problem
- Your Domain Will Dictate Your Tools
- No Code Platforms have Value
- Keep the Option to Code
- Stay on top of New Trends

Building a Pathway to Success

- Your Work Matters ... But Ask How It Matters
 - ✓ You Need to Always Manage Your Career
 - ✓ Do the Projects You Work On Align With Your Goals?
 - ✓ Will You Come Out This Engagement With New Skills?
 - ✓ Do You Wake Up Every Morning, Ready To Go?

Building a Pathway to Success

- Your Work Needs to Align with a Business Problem
 - ✓ LOB's have nebulous goals to "Increase Revenue" or "Cut Costs"
 - ✓ Your Business Performance Indicator will typically be equated to \$\$\$\$
 - ✓ If your Work doesn't have a Direct Impact, it's just a Waste of Time
 - ✓ Bridge the Gap Between Technology and Business
 - ✓ Learn to Ask the Right 'Business' Questions

Building a Pathway to Success

- Your Domain Will Dictate Your Tools
 - ✓ Open Source Software (OSS) vs Closed Source Software (OCS)
 - ✓ OSS is usually the right path
 - ✓ Choose OSS that's Scalable and Easy to put in Production
 - ✓ Time To Market Matters

Building a Pathway to Success



- No Code Platforms have Value
 - ✓ Trust Market Innovators to build solid and well tested No Code platforms
 - ✓ Benchmarking
 - ✓ Work Through Use Cases Faster
 - ✓ Get to Signal in the Noise Faster

Building a Pathway to Success



- Keep the Option to Code
 - ✓ Python / R / Java / C++
 - ✓ Extend with API's or Clients
 - ✓ OSS is typically Coding

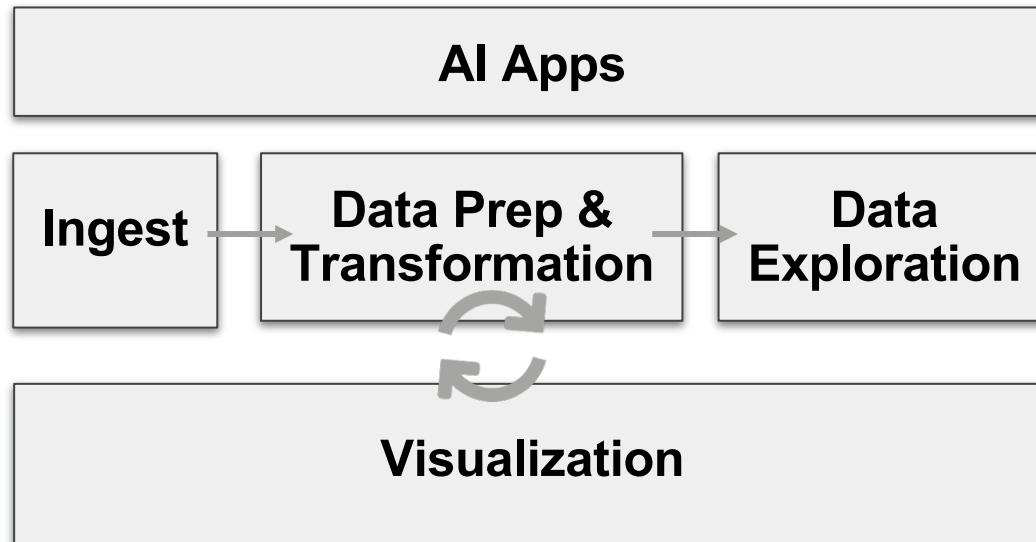
Building a Pathway to Success



- Stay on top of New Trends
 - ✓ Data Science is a Fast Moving Field
 - ✓ New Algorithms / New Methods Appear Every Year
 - ✓ Always Be Learning / Never Stop Learning

How H2O.ai Can Help

Automating Data Science and ML Workflows



- Q Platform uses pre-built AI Apps to allow organizations to harness the power of AI. Bring Your Own Data and Get Insights!
- Code + No Code environment
- Putting the Organization on a solid footing to ‘connect the dots for AI transformation’.



Business Analyst

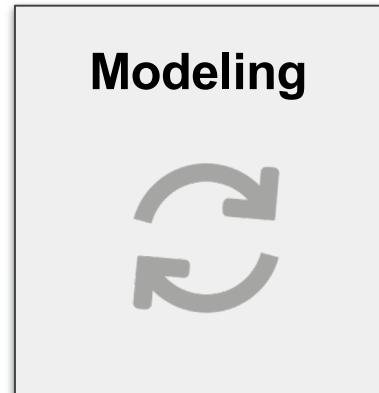
H2O Q

H2O.ai Platform

Automating Data Science and ML Workflows

H₂O.ai

- H2O-3 / Sparkling Water / Driverless AI + Q with Enterprise Support
- No Code interface / Code in Python + R.
- BYOR / Visual AI / NLP / Time Series / MLI
- Putting Models into Production



Deployment Options:

- Rest Servers
- SnowFlake Integration
- MOJO (Java, C++)
- Python Scoring Pipeline
- In DB scoring
- Platform and Cloud Agnostic



Data Scientist

H2O Q

H2O Driverless AI

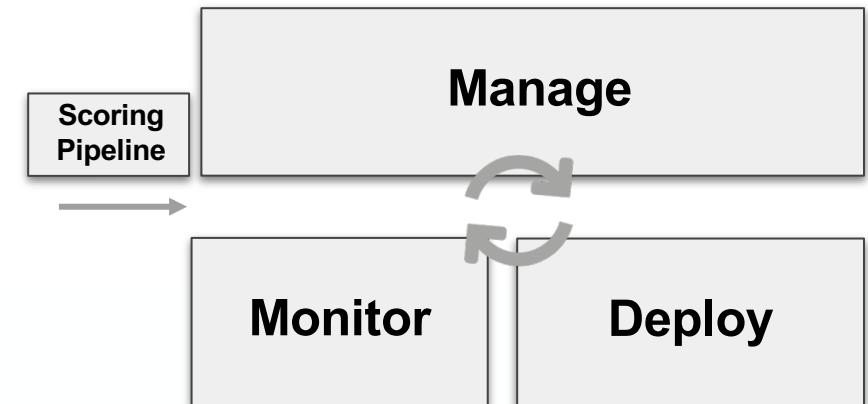
H2O-3

H2O.ai Platform

Automating Data Science and ML Workflows



- Full E2E Life Cycle with H2O-3 / Sparkling Water / Driverless AI + Q / Model Ops with Enterprise Support
- Put your Work into Production = Winning!
- Code option or No Code Option



devOps Engineer

H2O Q

H2O Driverless AI

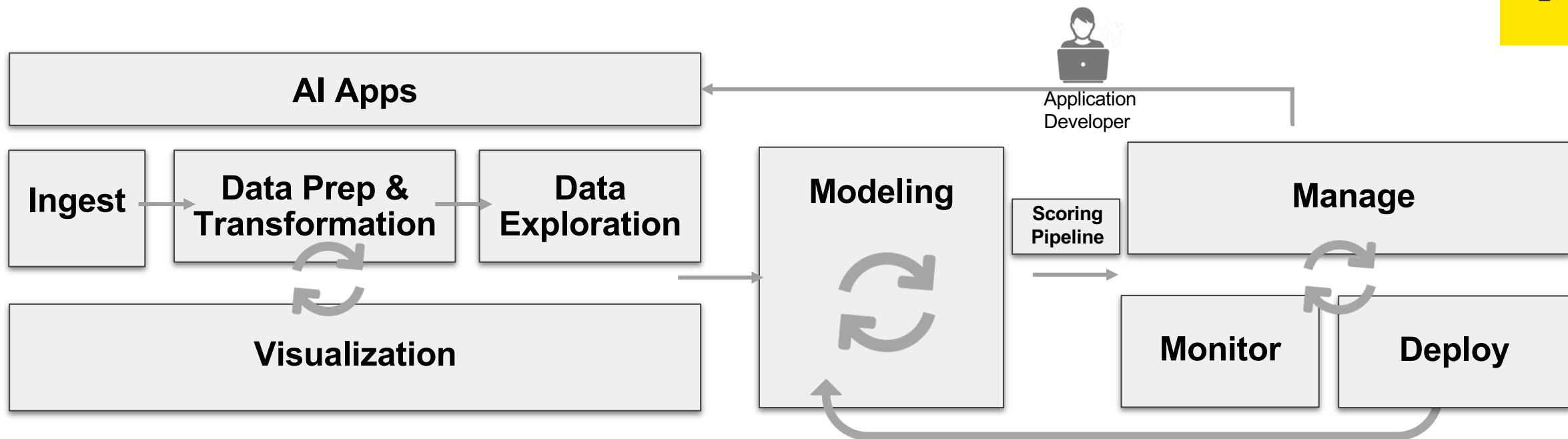
H2O ModelOps

H2O-3

H2O.ai Platform

Enterprise Puddle
Enterprise Steam

Automating Data Science and ML Workflows



Business Analyst



Data Scientist



devOps Engineer

Retrain

H2O Q

H2O Driverless AI

H2O ModelOps

H2O-3

H2O.ai Platform

Enterprise Puddle
Enterprise Stream

Platform Demo

Q & A

Take Driverless AI for a Test Drive

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Free Trial Today**

<http://bit.ly/try-driverlessAI>