

# ENABLING SCIENTISTS TO DEVELOP

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# OVERVIEW AND AGENDA

Can you be savvy with data and algorithms without being savvy at coding?

We will explore 3 Journeys and 4 takeaways filled with failure, insight, and success.

# THE BACKSTORY

# JOURNEY 1: START-UP @ LLAMASOFT

## What Happened

\$1.5B valuation

Team of 6 to 28

Multiple products created

## Key Findings

**Use cases** were well understood and core to success

**Testing** was poor at the start

**Release process** was cumbersome and lacked trust

**Siloed teams**, throwing it over the fence

# JOURNEY 2: INTERNAL STARTUP @ RYDER

## What Happened

Grew from 4 to 60 people over 3 years

Warehouse efficiency solution rolled out to 45+ warehouses

## Key Findings

**Close to the users**, nearly daily interactions

**Testing** was a challenge

**Deployment** required continuous work with Corp IT

**Teams were integrated**, but DataSci remained siloed

# JOURNEY 3: START-UP @ OPTILOGIC

## What Happened

Grew from nothing to 64-person team

Fought hard to perfect the architecture

Released a 100% SaaS Product

## Key Findings

**Business problem** understanding was essential

**Unit testing** throughout the process is crucial

**System-wide build process**  
(the tools have gotten better here too)

**Feature team** experience was solid

# TAKEAWAYS

What can we learn from these experiences?

# ALGORITHM RELEVANCY

*Don't get lost in the algorithm*

Requests should be use-case driven, watchout for “I need AI” asks

Continual feedback and collaboration with business users is crucial

Get out of the chair and in the field



# TESTING IS KEY

*Teach it, Grow it, make it happen*

Types of Testing: unit, stress, behavior, integration, ...

Each testing approach has unique strengths

Create patterns that they can replicate

Teach by doing, guiding, and observing

# DEPLOYMENT PROCESS

*Deployment is smooth(er) with good testing*

Tool up so that researchers aren't doing this work

Set clear definitions for what is passing

Gates should reduce noise, not create it

# FEATURE TEAMS

*Birds of a feather flock together*

Create the classic independent team that can do everything (including DataSci)

Encourage cross-team collaboration and mixing

Enable feature teams for improved productivity and efficiency

# WRAP-UP



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