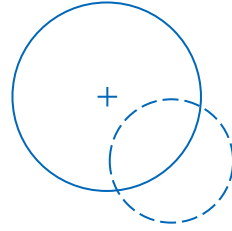




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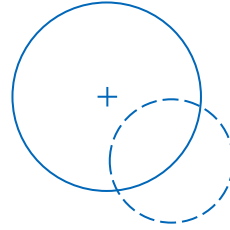
# FALL 2021 HACKATHON



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# Agenda



Welcome & introduction

Who is Dataiku?

Hackathon overview

Hackathon logistics

Q&A

Wrap-up



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# WELCOME!

**WHO IS  
DATAIKU?**

# ACADEMIC PROGRAM

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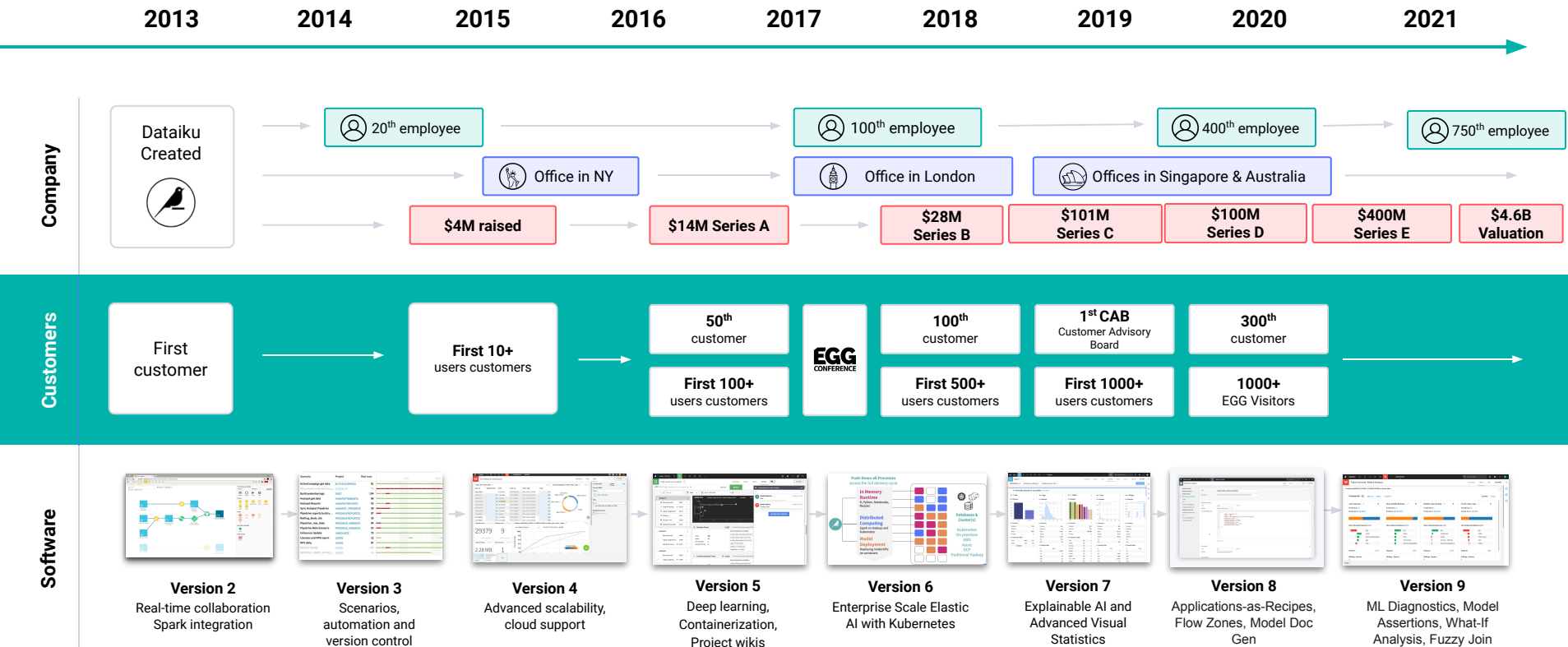
Our **completely free** program supports the activities of educators, students, researchers and higher education leaders, and we connect student talent to our 300+ customers and partners.



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# A Brief History of Dataiku



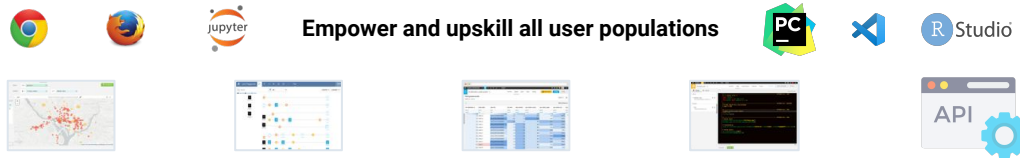
# Dataiku: The Unified Platform to Deliver Impactful AI at Enterprise Scale



**Connect and use existing data and compute**



**Empower and upskill all user populations**



**Leverage all best available technologies**



No code

Low code

Full code

Programmatic control



Cataloging and connectivity

Data exploration and preparation

(Auto) machine learning

Insight sharing, visualization applications

Scheduling  
Orchestration  
Deployment  
Monitoring

Systemic reuse and collaboration

Integration and staging

Centralized governance and audit

Horizontal and vertical scalability

**Make the most of available cloud stack and open source technologies, transparently**



On Premise



# Empower Everyone From Low- to Full-Code



Python expert



Data Scientist



Statistician

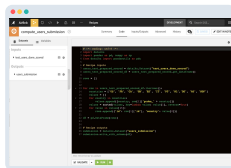


Analyst



Spreadsheet wizard

High code



## Code your way

- Code freely with Jupyter, R, Python IDEs, any package, isolated environments, and full Git integration
- Have full programmatic control with full-fledged API for models, pipelines, automation

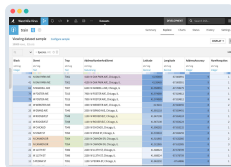
## Don't get distracted

- Self-provision of compute resources including cloud-based elastic processing for large volumes of data, users or services
- Expedite wrangling with facilitated connections to SQL, HDFS, cloud storage, NoSQL, HDFS, APIs,...

## Ensure impact

- Low effort CI / CD through orchestrated pipelines with optional automatic checks
- Create deployment artifacts
- Deploy your models as containerized APIs
- Showcase insights with webapps (Shiny, Flask, Bokeh) and deploy in Kubernetes package for reuse by the target population

Low code



## Leverage advanced tech

- No need to master the underlying infrastructure
- Connect, explore and navigate
- Combine point and click with R, SQL, Python and leverage code snippets
- Packaging of cloud services

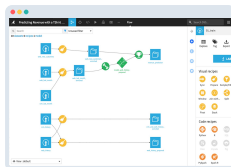
## Orchestrate advanced flows

- Build check, metrics, and warnings on top of your data flows
- Orchestrate simple and complex data flows in minutes for continuous value generation

## Upskill

- Gain exposure to more advanced usage of data within a controlled environment

No code



## Point & click

- Search, connect to, and explore data from preconnected or local systems
- Data wrangling, (auto) machine learning directly through visual and click interfaces
- Dashboarding, advanced statistics and data visualization

## Build on shoulders of giants

- Use packaged plug-ins and full apps to deliver data scientist-grade projects with business expert insights
- Copy and paste past projects, data and models for reuse

## Human and readable

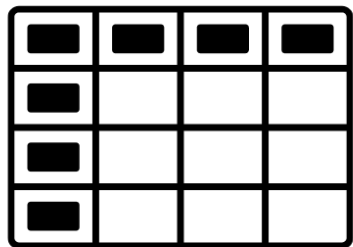
- Understand projects, from data connection to trained models

# 2

## HACKATHON OVERVIEW

# Build NYC Housing Price Prediction Model

Data obtained using the Zillow API




**Data**



Processing, EDA, Modeling and Prediction  
**in Dataiku**



**Insights**

More details in the [problem statement](#).

# Sharing your results

## Report and Presentation

### Submit Predictions

- CSV format
- Export from Dataiku

ID	prediction
bigint Integer	double Decimal
2	2942737.9667038815
3	1241677.2784606314
10	637690.0875658464
14	938159.7923913429
17	1685577.1492876082
22	734224.0386626173

### Written Report

Think of it as a blog!

- Description of the problem, analysis, models, results
- ~2000 words
- Include charts, images, code (if applicable)


### Slide Presentation

- Concise summary of your report
- 8-10 minutes
- Technical+Non-technical audience



# Judging Criteria

Predictions, Report and Presentation

**Best RMSE**  **Best Project !**

## What will the judges be looking for?

- Organization, quality of visuals, communication (verbal and written), clarity of insights, claims supported by evidence.
- Details on the rubric can be found in [problem statement](#).



# 3

**HACKATHON  
LOGISTICS**

# IMPORTANT DATES & DEADLINES

- October 12th: Virtual kick-off
- October 18th, 4pm Eastern: Storytelling with Data webinar
- October 22nd: Registration cut-off
- November 19th: Hackathon closes and submissions due

## Office Hours

- October 19th, 3pm Eastern
- November 4th, 11am Eastern

# OFFICE HOURS



**Drop in and ask questions!**

**Tuesday, October 19th from 3PM - 3:50PM Eastern**  
<https://dataiku.zoom.us/j/93075157386?pwd=dGFhKzBjWnhzQ3dZMjR6NStidXQwZz09>

**Thursday, November 4th from 11AM - 11:50AM Eastern**  
<https://dataiku.zoom.us/j/94089457883?pwd=UjZuWkVQRXhiZTlxenkzdkN6YXdwUT09>



# STORYTELLING

Abstract geometric shapes in white lines on a dark blue background. There is a horizontal line, a stepped line, a dashed diamond, a solid square, and a large triangle with a stepped cutout.

Paul Smith, best-selling author of the books *Lead with a Story*, *Sell with a Story*, and *The 10 Stories Great Leaders Tell*, will share what he's learned from his extensive research in storytelling.

You'll learn why you should be using more storytelling in your work, when you should be telling stories (and when not), as well as actionable tools for how to craft the most effective and engaging business stories. In the second half of the discussion, Paul will explain how to apply those same storytelling techniques to data.

**Monday, October 18th at 4PM Eastern**

Register [here](#)!

# HOW DO I...

Abstract geometric shapes on a dark blue background, including a horizontal line, a stepped line, a dashed diamond, a solid square, and a triangle.

## **Form a team?**

Coordinate internally! (Teams of 3-4)

## **Register?**

Fill out the registration [form](#) (one per team)

## **Access my Dataiku instance?**

After October 15th, Dataiku will provide access information to teams via email

## **Get help?**

Join office hours, and/or post your questions to Slack:

**#pace-hackathon-21**

# BE PREPARED

## Technical

- Prepare: Complete [Basics 101-103](#) and [Machine Learning and Scoring Basics](#) on the [Dataiku Academy](#)

## Logistics

- An email will be sent out with instructions for connecting to Dataiku
- Attend office hours if you can
- Utilize the Slack channel: #pace-hackathon-21
- Event hashtag is the same: #pace-hackathon-21

**Q&A**

# DATAIKU ACADEMICS

Interested in more events?

Visit our Academics Event Portal to stay up-to-date!

[EVENTS PORTAL](#)



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