

DATA+AI
SUMMIT 2022

Building a Data Science as a Service platform

in Azure with Databricks

ORGANIZED BY  databricks



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Agenda

What we will cover today

- Data Science Personas in your business
- The challenge of support multiple personas
- How to enable all users to achieve more with AI
- Azure Machine Learning, MLFlow & Azure Databricks

Data Science Personas

Data Science Personas



Data Scientists & ML Engineers

- Experienced Machine Learning Developers
- Deep Shallow & Deep Learning
- Typically mostly Python based skills
- Comfortable developing in a notebook
- Data Science may have limited deployment experience & low knowledge of API management
- Some R, Scala etc - Other ML languages

Data Science Personas



**Data Scientists &
ML Engineers**



Data Analysts

- Lots of experience with SQL & Data
- Lots of experience in data visualisation
- Naive understanding of Machine Learning
- Interest in Machine learning and how to apply it in their business or domain
- Little or no Python or R experience

Data Science Personas



**Data Scientists &
ML Engineers**



Data Analysts



Senior Analysts

- Lots of experience with SQL & Data
- Lots of experience of data visualisation
- Basic understanding of Machine Learning
- Interest in ML and how to apply it
- Basic Python or R experience
- The raw materials to build machine learning models, but might not have the technical knowhow.

Data Science Personas



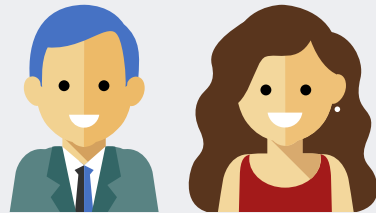
**Data Scientists &
ML Engineers**



Data Analysts



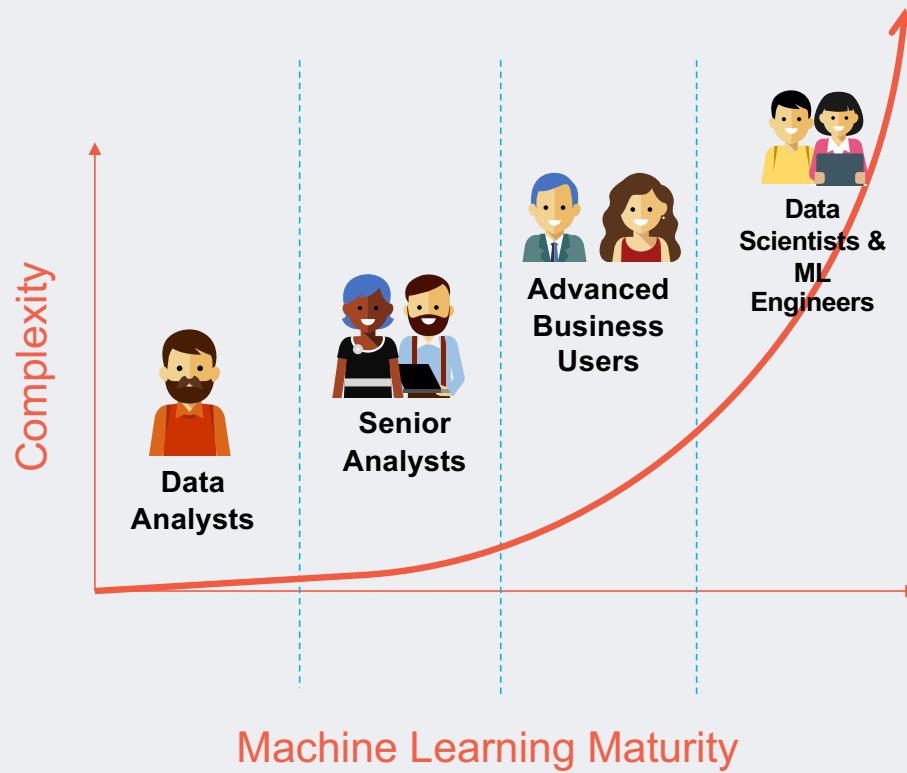
Senior Analysts



**Advanced Business
Users**

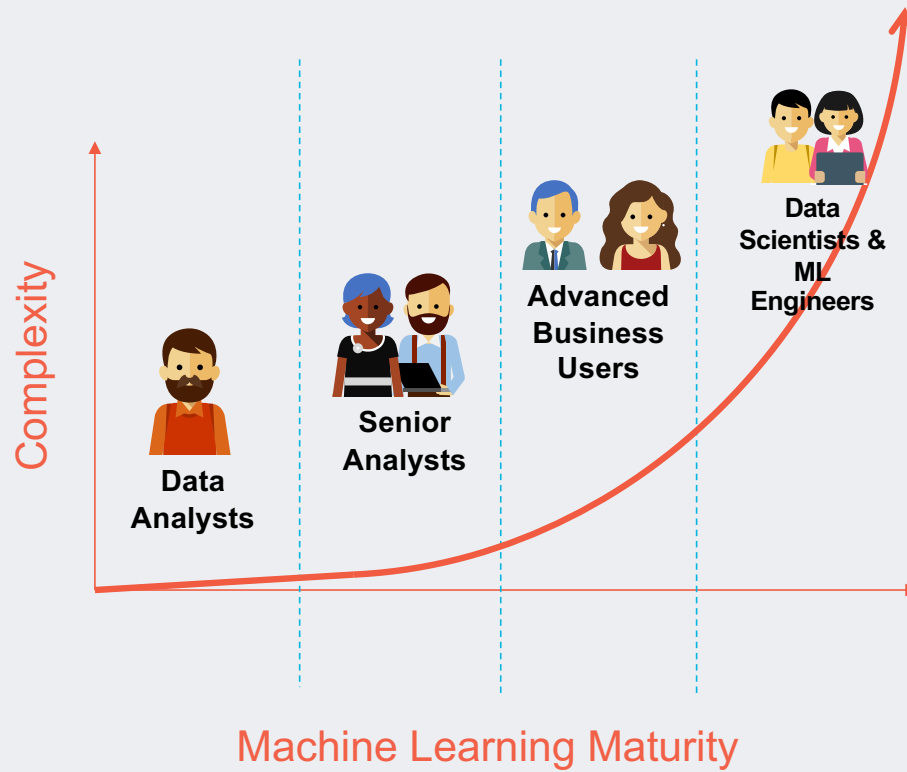
- Basic experience with SQL & Data
- Naive understanding of Machine Learning
- Interest in ML and how to apply it
- Typically quite deep in a domain specific language. R for Actuarial Risks Analysis for example

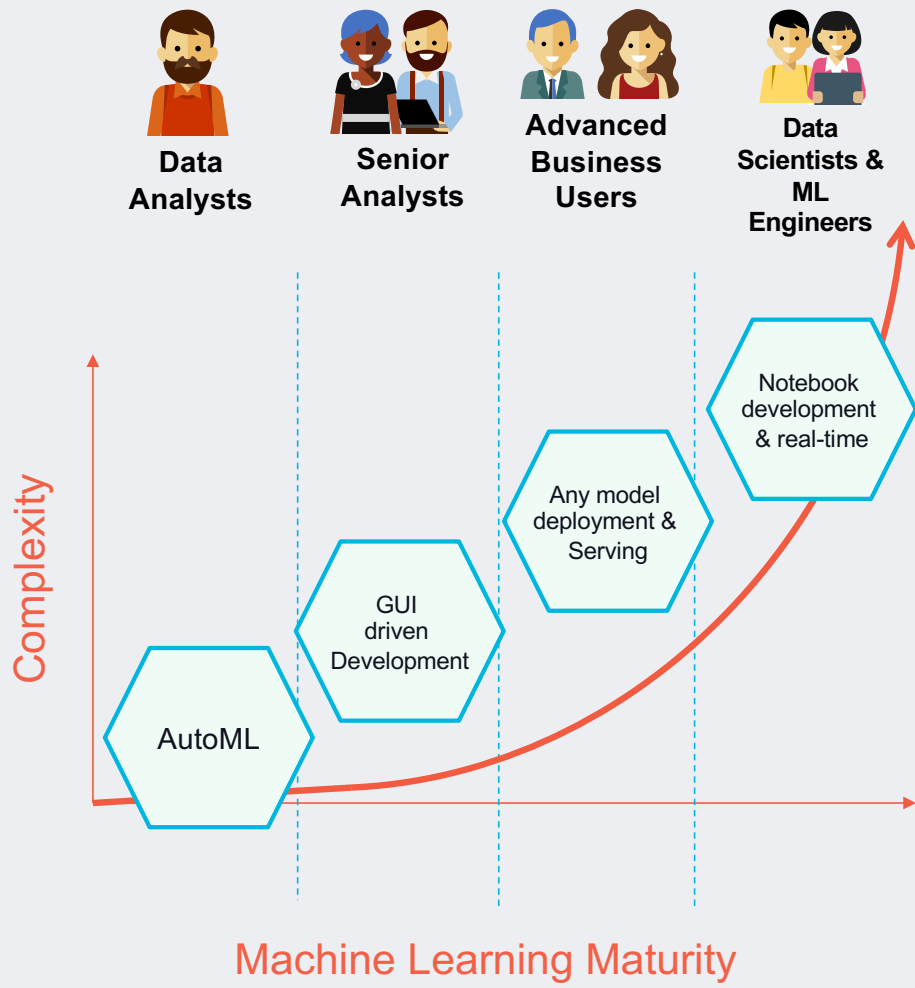
Data Science Personas



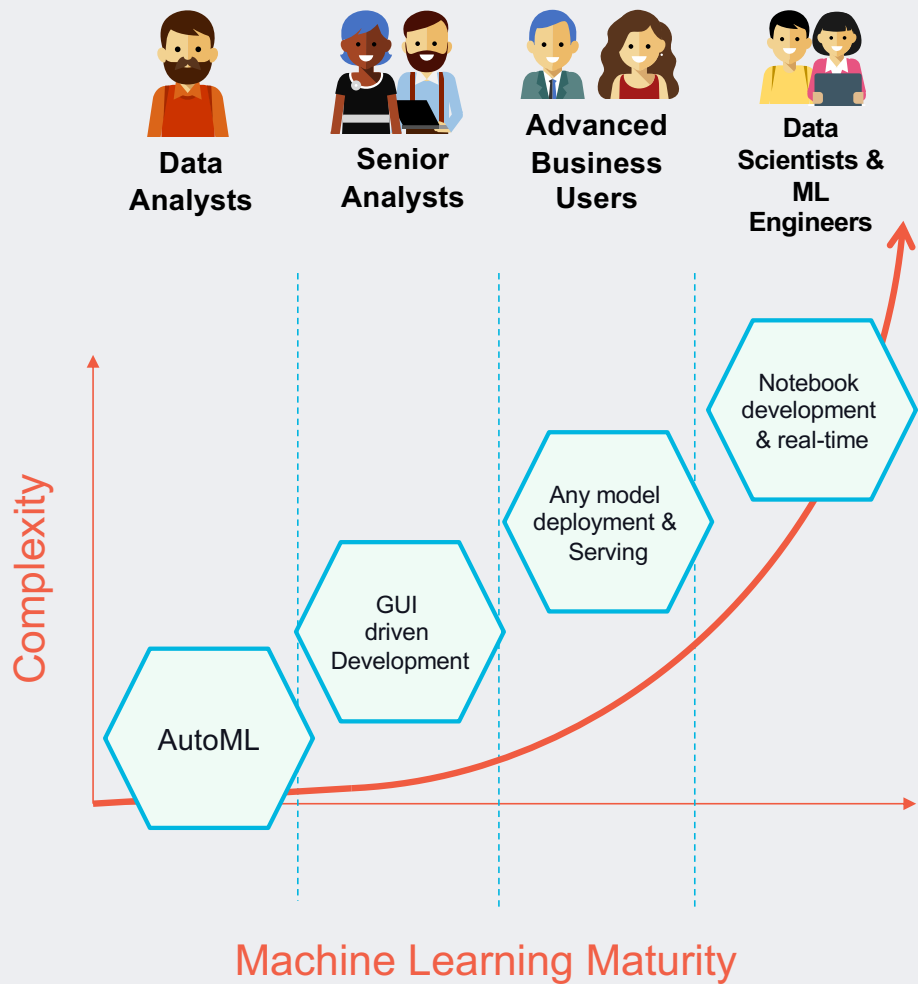
The Challenge

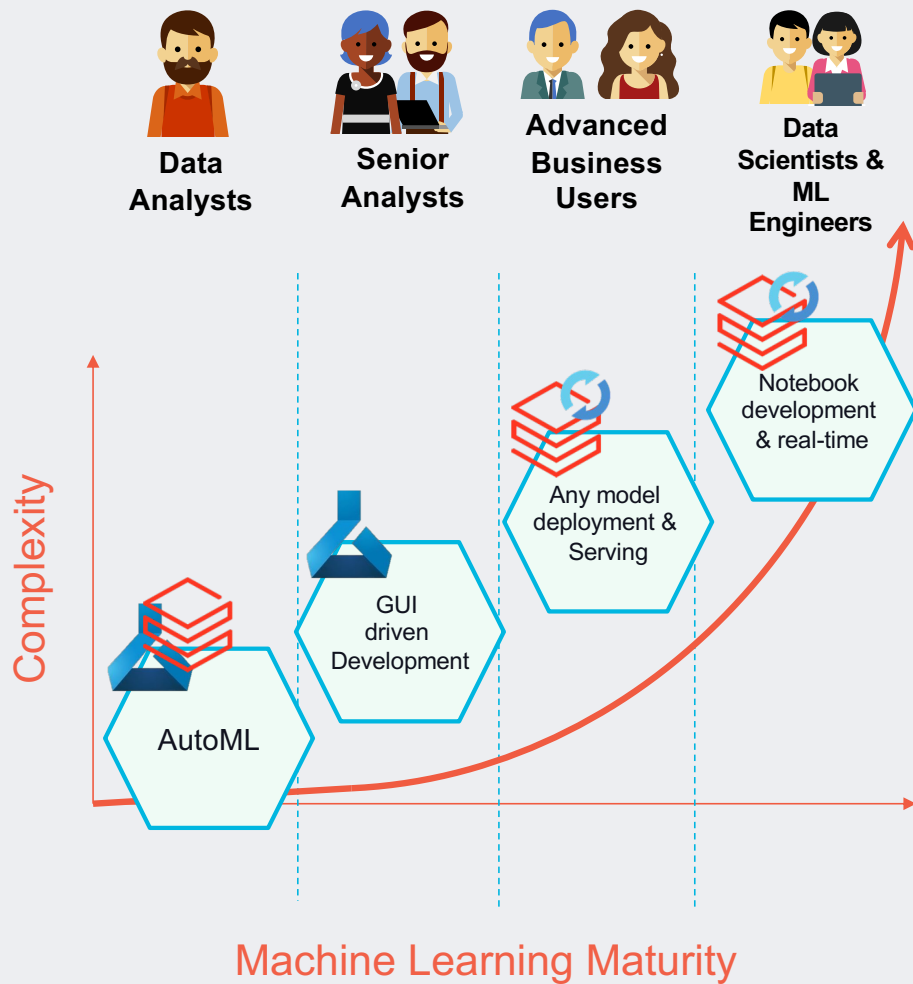
Challenge: This is hard!





How to enable all users





Building the right platform

Data Science as a Service

Demo

Achieving the Data Science as a Service platform

- Databricks – AutoML
- Azure ML – GUI based development
- Databricks – Managed MLFlow
- Databricks – Mlflow model serving

Closing

Meet everyone **where they are**, with an architecture which supports **multiple** Data Science personas.

Enable everyone to achieve **more** with
Advancing Analytics and Artificial
Intelligence

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Thank you



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