



Institute of
Data

2024



Data Science & AI

Module 0

Learn to learn



Agenda

- Strategies for learning data science and AI



Challenges in learning data science and AI

- The aim of data science and AI program is to make you an **effective** Data Scientist in **industry**.
- Information about data science and AI are readily available for anyone to learn but **few** are able to develop their learning and achieve a level where they can **effectively perform** the role of a Data Scientist.
 - **Learn how to learn**



Strategies for learning data science and AI

- Using the following **strategies**, you can do it:
 - Develop a **data-driven mindset**
 - Look at every topic or a question as a mini **Data Science project**
 - Ask yourself what **data** can answer this question and what the data is telling me
 - Develop your **Statistical Thinking**
 - Accumulate your learning in a **Cookbook** Notebook(s)
 - Understand **your strengths** (including your previous experiences). Be flexible but avoid a data scientist **generalist** stance.
 - Build your own **portfolio**
 - **Learn how to learn**



Learning how to learn

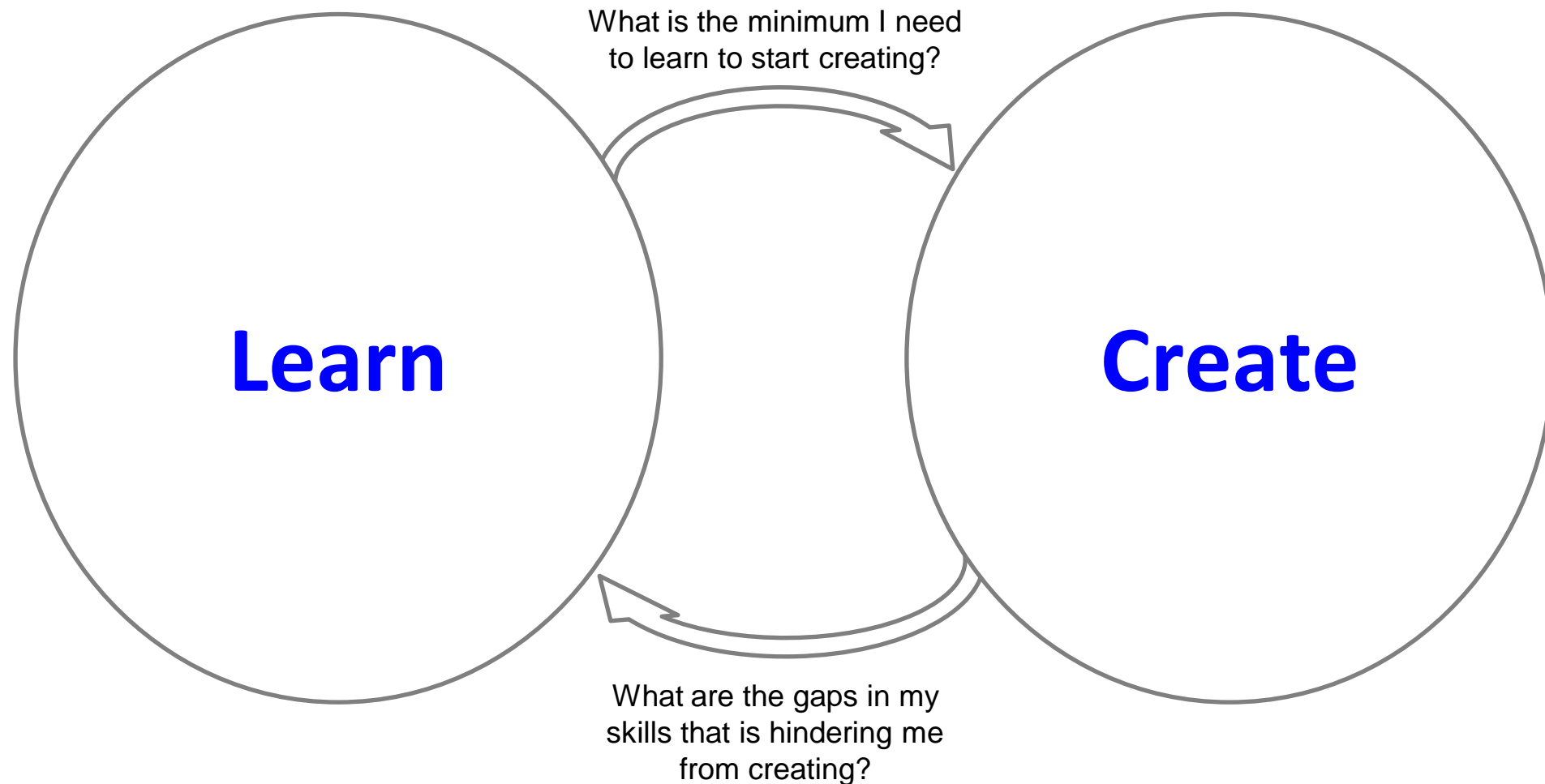
- Use **multi-modal** learning, For example:
 - Reading
 - Writing
 - Observing
 - Researching
 - Coding
 - Experimenting
 - Visualising
 - Communicating
 - Collaborating
 - Questioning

Learning how to learn

Some learning modes are more effective



The Minimal Viable Learning (MVL) concept helps you move quickly from learning to creating. As you create you identify possible gaps in your skills and go back to learning to fill these gaps.



End of presentation