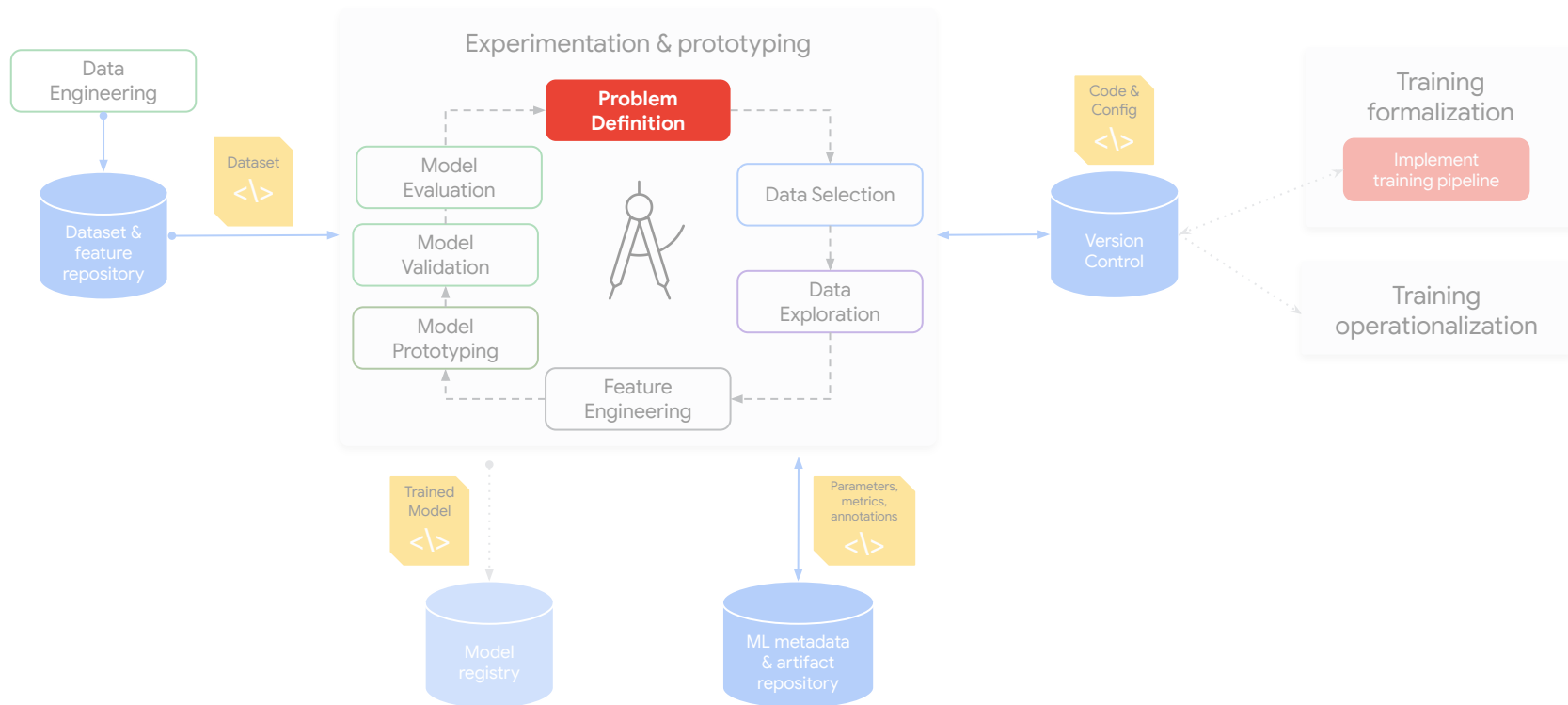


ML Development: Problem Definition



MLOps: ML Development



The MLOps Personas



ML
Engineer



ML
Researcher



Data
Scientist



Data
Engineer



Software
Engineer



DevOps



Business
Analyst

Problem Definition

- What **challenge** do you wish to solve?

Problem Definition

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- How might **machine learning** approaches be used to solve this problem?

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Problem Definition



Keywords



Environment



Datasets

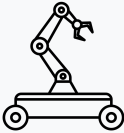


Metrics


Keyword Identification

“yes” 
“no” 

Common Use

“left”
“right”
“go”
“stop” 

Robotics

“one”
“two”
“four”
“six” 

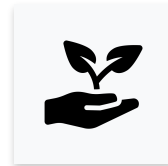
Numbers

Multilingual Keywords






Environment

- Background noise
- Physical location
- Connectivity



Environment

Metrics

- Latency 
- Energy 
- Accuracy 



Metrics

Recap: Problem Definition

- What **challenge** do you wish to solve?
- How might **data science** and **machine learning** approaches be used to solve this problem?
- **What data** is required for a successful machine learning prototype?
- What could the **desired outcomes** look like?
- What **algorithms** do you wish to put to the test?
- What do you make of the **model's outputs**?