Master in Artificial Intelligence

Overview III

Purpose

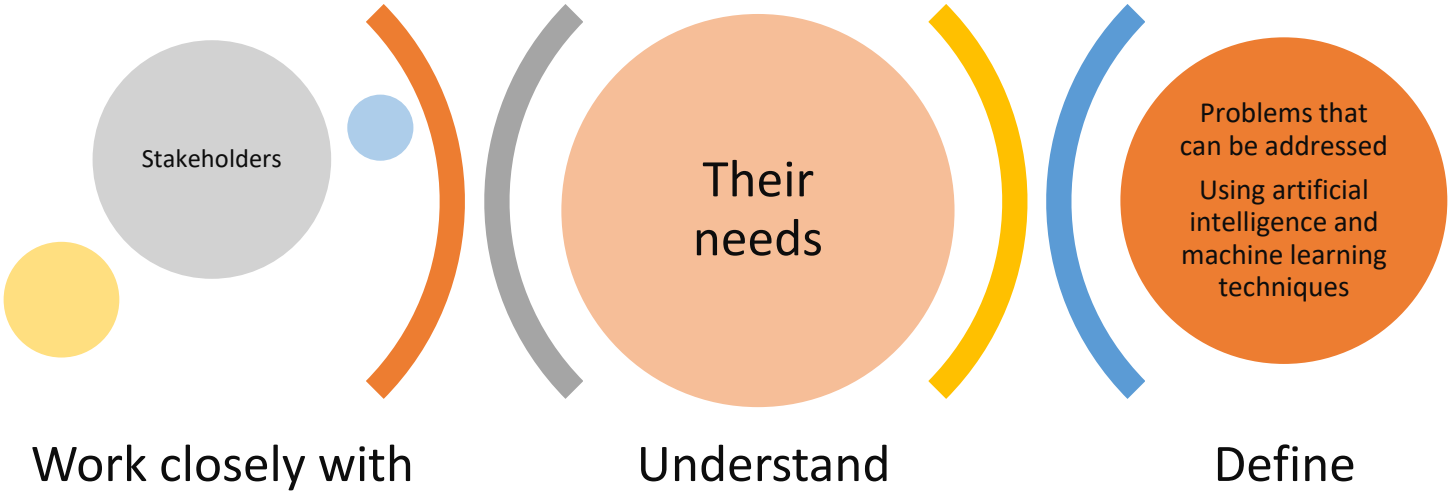
The purpose of the section is to give you an overview of how to become a Successful Artificial Intelligence (AI) Engineer

At the end of this lecture, you will learn the following

- **What are the responsibilities of a AI Engineer?**

What are the responsibilities of an AI Engineer?

Problem Definition



Data Collection and Preprocessing

Gather relevant data

Ensure its quality

Preprocess it

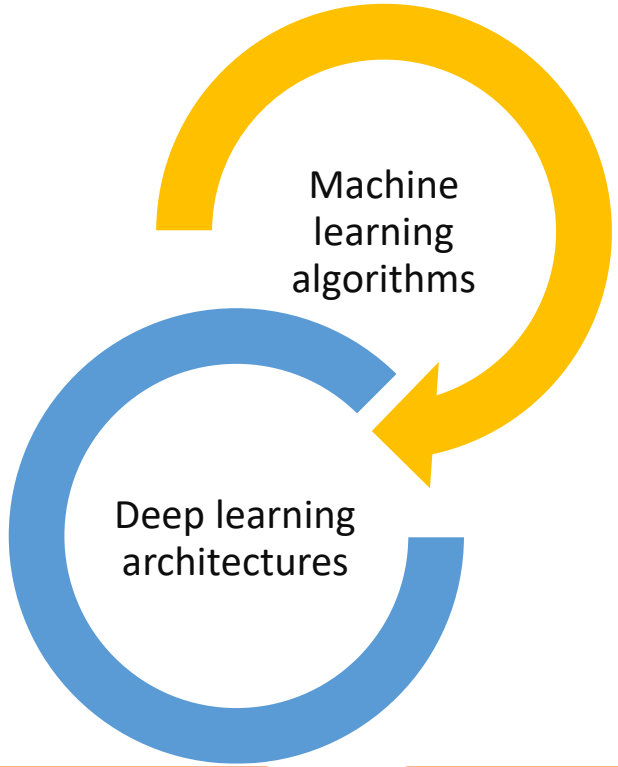
Make it suitable for analysis and modeling

Algorithm Selection and Development

Research

Select

Develop



Problem at hand

Available data

Model Training and Evaluation

Train

- Machine learning models
- Using the prepared data

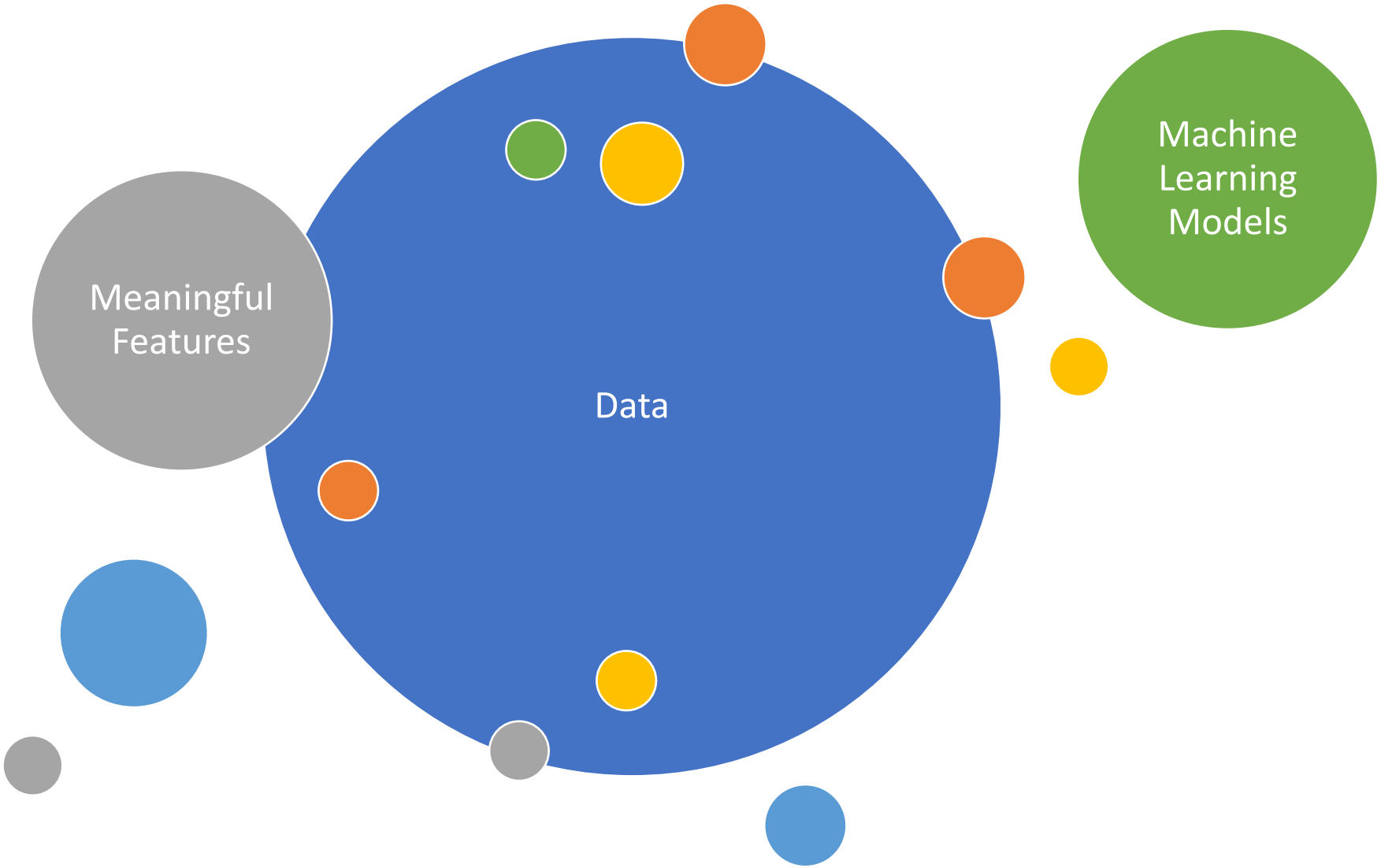
Fine-tune

- For optimal performance

Evaluate

- Performance using
- Relevant metrics

Feature Engineering



Deployment

Trained Model

+

Existing Systems

→

Meet Performance Requirements

Monitoring and Maintenance

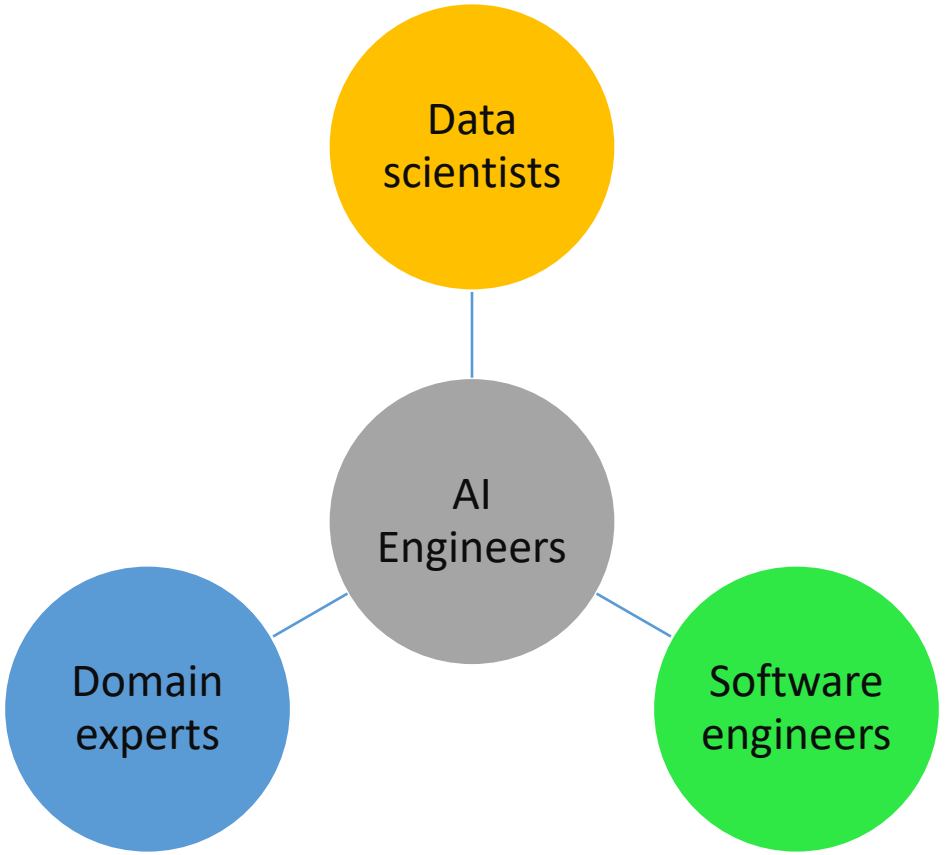
Monitor the deployed models

Ensure they continue to perform well over time

Update or retrain them as needed

Adapt to changing conditions or requirements

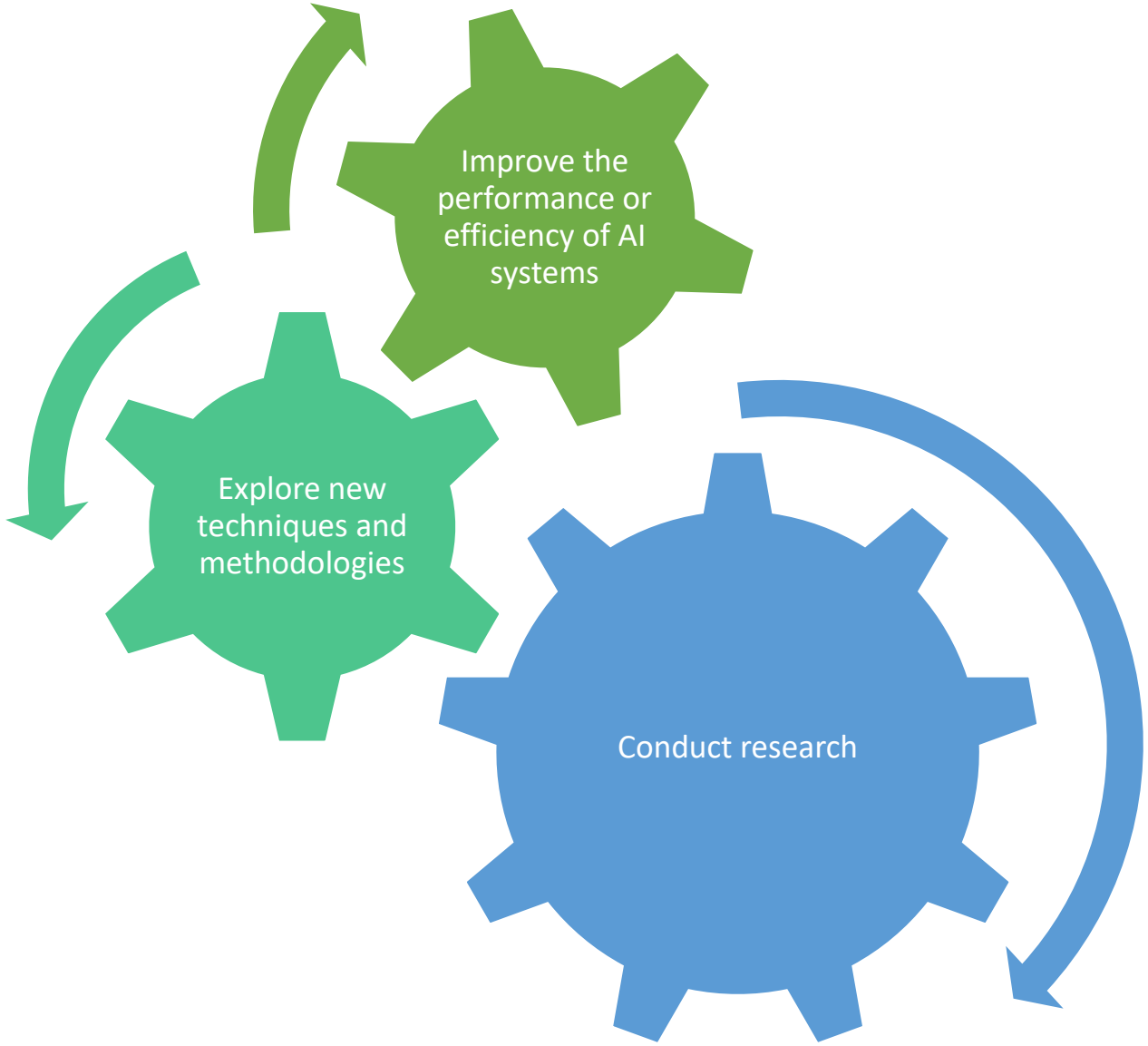
Collaboration



Develop comprehensive AI solutions

Address real-world problems effectively

Research and Innovation



Ethical Considerations

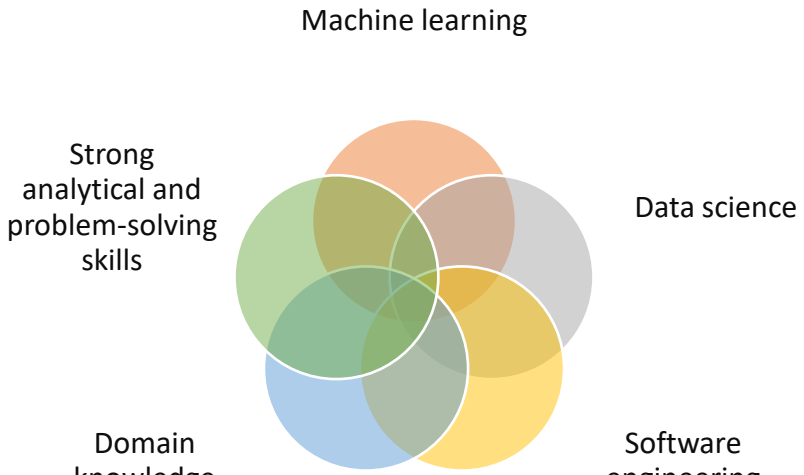
Ethical considerations

- Bias in data or models
- Privacy concerns
- Potential societal impacts

Develop AI solutions

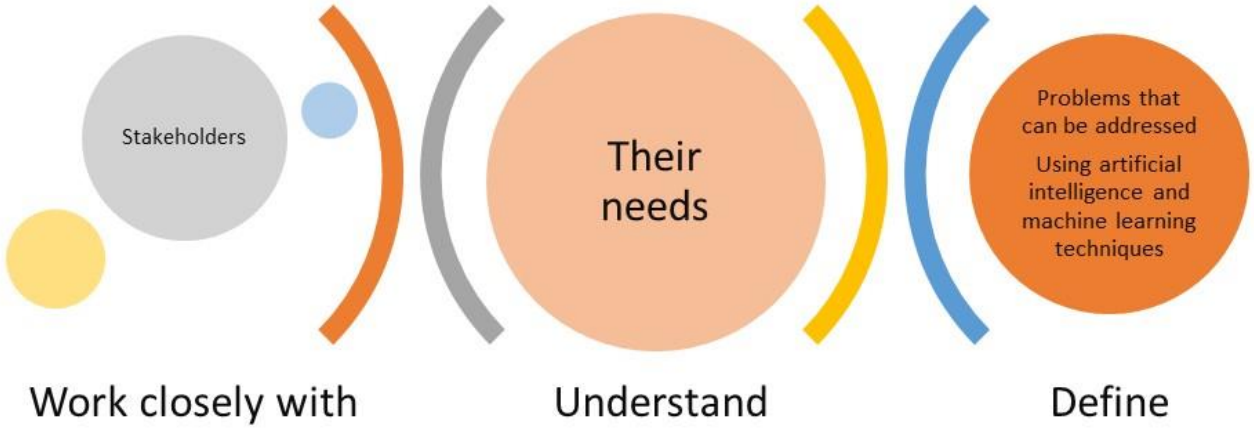
- Fair
- Transparent
- Accountable

What are the responsibilities of an AI Engineer?



What is next?

Problem Definition



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Overview III