



ML Pathway

Problem to Solve

How to fix or change X?

Question to Answer

How does a change in X affect Y?

Data Product

Mobile Apps, Services, Websites, etc...

Data Analysis

Reports, Visualizations, Communications, etc...



Real World

Start
→

Collect & Store Data

Raw Data

Physical Sensors,
Surveys,
Simulations,
Experiments,
Data Usage, etc...

Process & Store Data

SQL Database,
CSV files, Excel,
Cloud Storage

1 Data Engineering

Clean & Organize Data

Reorganize Data, Dealing with Missing Data, Restructure Data, etc...

Exploratory Data Analysis

Statistical Analysis, Visualizations

2 Data Analysis

(Data Analyst / Data Scientist)

Report

Visualization

Communication

Data Analysis

Make Decisions
Answer Key Questions

Machine Learning Models

Supervised Learning:
Predict an Outcome
Unsupervised Learning:
Discover Patterns in Data

3 Machine Learning

(Machine Learning Engineer)

Service
Dashboard
Application

Data Product

Predict Future Outcomes
Gain Insight on Data



Real World

End
→