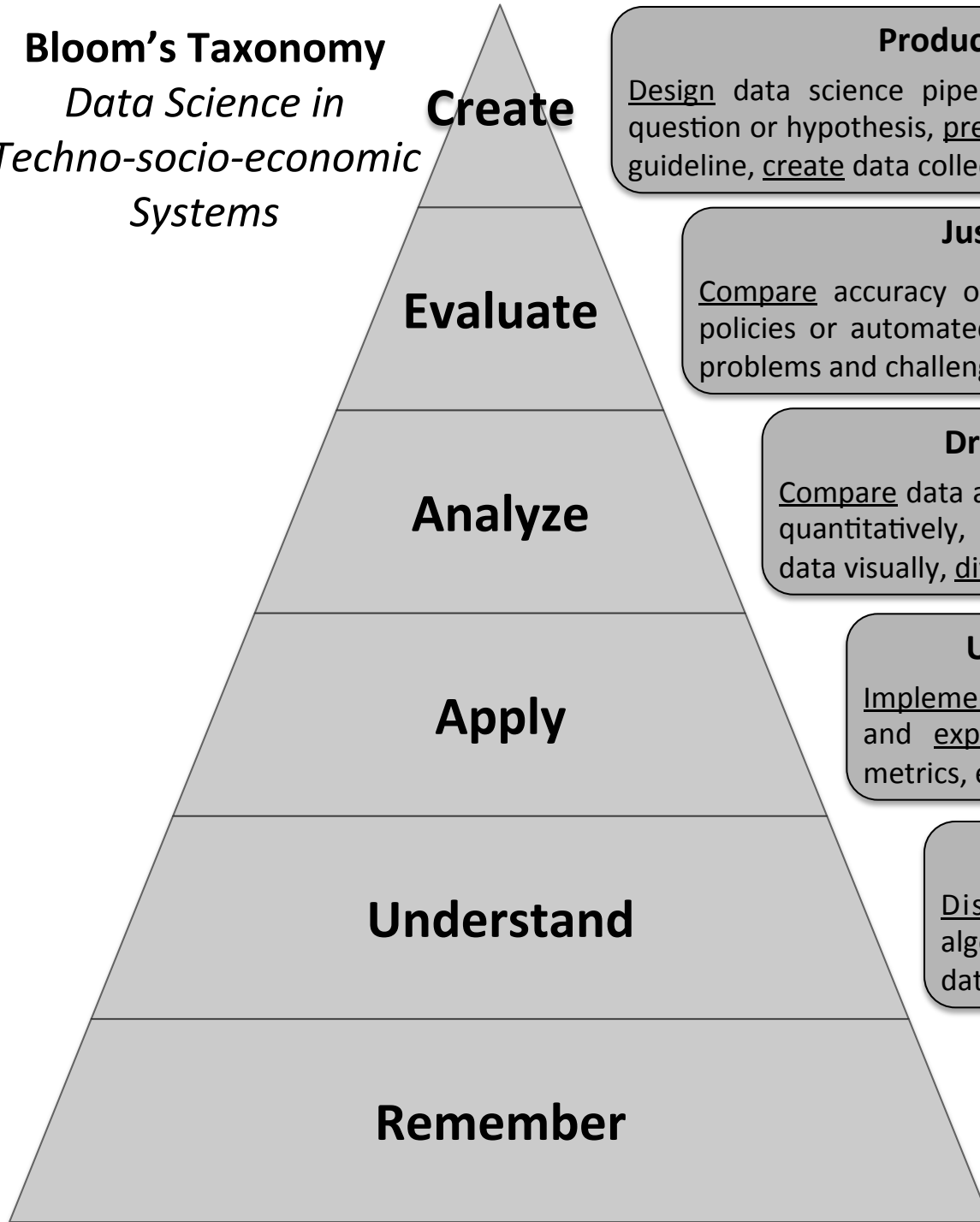


Bloom's Taxonomy

Data Science in Techno-socio-economic Systems



Create

Produce new or original work

Design data science pipelines, compose data, formulate a research question or hypothesis, prepare a project report according to a research guideline, create data collection processes, etc.

Evaluate

Justify a stand or decision

Compare accuracy of machine learning algorithms, recommend policies or automated actions via data reasoning, assess domain problems and challenges, explain patterns in data, etc.

Analyze

Draw connections among ideas

Compare data analytics results with baselines, explain results quantitatively, infer hidden patterns from data, demonstrate data visually, divide data to training/testing, etc.

Apply

Use information in new situations

Implement and execute data science pipelines, modify and experiment with data, calculate evaluation metrics, etc.

Understand

Explain ideas or concepts

Distinguish supervised vs. unsupervised, algorithms, correlations vs. causations, interpret data via graphical analysis, etc.

Remember

Recall facts and basic concepts

Memorize programming commands, list guideline steps, define measurements, identify algorithm inputs/outputs, etc.