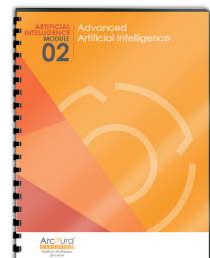# Artificial Intelligence Systems
Problem Types and Design Patterns
Mapping Reference Matrix

	Baseline Modeling	Content Filtering	Dimensionality Reduction	Feature Encoding	Feature Imputation	Feature Scaling	Frequent Model Retraining	Image Recognition	Overfitting Avoidance	Pattern Identification	Prediction Performance Evaluation	Sequence Identification	Supervised Network Configuration	Text Representation	Training Performance Evaluation	Transfer Learning
Complex Analysis	x		x	x	x	x		x	x	x	x	x		x		
Graphic Recognition	x		x		x	x	x	x	x	x	x	x		x		x
Language and Sentiment Analysis	x		x	x	x	x		x	x	x	x	x	x	x		x
Predictions and Forecasting	x	x	x	x	x	x		x	x	x	x	x		x		
Autonomous Decision Making	x			x	x	x		x	x	x	x			x		