

AI-900 Short Notes

Introduction to AI

- **Machine Learning:** Foundation of AI. Teaches a machine to learn based on data
- **Anomaly Detection:** Automatic error detection based on anomaly
- **Computer Vision:** Interpretation of images and video
- **Natural Language Processing (NLP):** Interpret written or spoken language
- **Knowledge mining:** Information extraction from unstructured data

Machine Learning

Definition: The foundation for most AI solutions

How does it work?

- Machines (computers) learn from data
- Data Scientists use data to train machine learning models to make predictions based on data.

Machine Learning on Azure

- **Automated ML (AutoML):** Create effective ML models with no expertise needed (note custom languages used are Python and R only)
- **Azure ML Designer:** A GUI for no-code development of ML models
- **Data and Compute:** Cloud-based resources for data scientists to run experiments
- **Pipelines:** A way to orchestrate tasks like training, validation, and deployment.

Anomaly Detection

Definition: Analyzing data over time to identify unusual changes (IMPORTANT MCQ)

Anomaly Detector: An Azure service with an API to create anomaly detection solutions