Your grade: 100% 1. Which command is used to activate a Conda environment in your terminal? 1/1 point activate conda [environment_name] onda start [environment_name] conda activate [environment_name] start conda [environment_name] Correct Correct! This is the standard command to activate a Conda environment. 2. What differentiates machine learning from classical programming? 1/1 point Machine learning models are always more accurate than classical programming Machine learning models learn from data, while classical programming relies on explicit instructions O Machine learning models do not need any data, while classical programming requires large datasets Machine learning is only used in academic research, while classical programming is used in commercial applications ⊙ Correct Correct! Machine learning models use data to improve their performance, whereas classical programming relies on predefined rules. 3. Which application is an example of artificial intelligence in the present day? 1/1 point Manual data entry O Static content websites Personalized recommendations on streaming services O Traditional programming loops ○ Correct Correct! Personalized recommendations on streaming services use AI to suggest content based on 4. Select the activation functions that are non-linear and commonly used in neural networks. 1/1 point ☐ Linear Function Sigmoid Correct Correct! The Sigmoid function is non-linear and was historically used in neural networks. ReLu (Rectified Linear Unit) ○ Correct Correct! ReLu is non-linear and commonly used in hidden layers. Correct Correct! Leaky ReLu is a variation of ReLu that aims to solve the dying ReLu problem. Hyperbolic Tangent (Tanh) Correct Correct! Tanh is a non-linear activation function and is used in neural networks. 5. What is the primary reason for the popularity and improvement of deep learning in recent years? 1/1 point O Improvement in classical machine learning algorithms Availability of large datasets

Advances in computational power, especially GPUs

Correct
 Correct Advances in computational power, particularly GPUs, have significantly contributed to the rise of deep learning.

