## **Comprehension MCQ:**

What is the main challenge in AI systems?	
A. Biased data	C. Creating synthetic data
B. Designing an algorithm	D. None of the above
How can biases in training data be addressed?	
A. Use diverse and representative datasets	C. Use adversarial learning
B. Develop fairness constraints	D. All of the above
What is one consequence of biased training data?	
A. AI systems become more accurate	C. AI systems become less transparent
B. AI systems become less effective	D. None of the above
What is adversarial learning?	
A. Training an algorithm on synthetic data that contains a wide range of biases	C. Using diverse and representative datasets to train the algorithm
B. Developing fairness constraints to ensure the algorithm's output is consistent with the desired outcome	D. None of the above
What is a potential bias in the design of an algorithm?	
A. Prioritizing speed over accuracy	C. Developing fairness constraints
B. Using diverse and representative datasets	D. None of the above
What is the importance of transparent and explainable algorithms?	B. They are more effective at producing accurate predictions
A. They allow for scrutiny of the logic	C. They require less diverse datasets
behind an algorithm's output	D. None of the above
How can biases be mitigated in AI systems?	

A. By promoting diversity and inclusion in	C. By using adversarial learning	
the AI field	D. All of the above	
B. By developing more transparent and explainable algorithms		
Why is it essential to promote diversity and inclusion in the AI field?		
A. To create more inclusive and equitable AI systems	C. To reduce the need for diverse datasets	
B. To make AI systems more accurate	D. None of the above	
What is the main source of bias in AI systems?		
A. The algorithm's design	C. Both A and B	
B. Biased training data	D. None of the above	
What is the purpose of fairness constraints?		
<ul> <li>A. To ensure that the algorithm's output is consistent with the desired outcome</li> <li>B. To increase the speed of an algorithm</li> </ul>	<ul><li>C. To decrease the accuracy of an algorithm</li><li>D. None of the above</li></ul>	
B. To increase the speed of an argorithm		
What is the benefit of using diverse and representat	ive datasets to train AI algorithms?	
A. They help to reduce bias in the algorithm's output	C. They are more cost-effective than synthetic data	
B. They make the algorithm more opaque	D. None of the above	
Why are biased AI systems a concern?		
A. They can lead to unfair and	C. They are too transparent	
discriminatory outcomes	D. None of the above	
B. They are always inaccurate		