

APOLLO

A4 Machine learning SL

Computer Science
First assessment 2027
1 questions | mark schemes

4. (a) Award [2] max

Award [1] per point

Dataset size/data volume/number of features;
Algorithm/model complexity;
Feature engineering;
Hyperparameter tuning;
Real-time requirements;
Ensemble methods.

(b) Award [2] max

Award [1] per point, from any section

Audit: Carry out independent audits to check for algorithmic bias;
Validate: Run validations to ensure that the algorithm is not biased;
Cross-reference diagnosis with human diagnosis;

Public disclosure: Inform patients about the algorithm and its limitations;
Provide informed consent forms for patients to sign;

Committee: Set up an oversight committee to approve the use of machine learning;
Any significant change to algorithms or datasets requires committee approval;
Have a patient representative on the committee;

Section B