A five level model for the adoption of machine marking

HUMAN MARKING				MACHINE MARKING	
Human-only Marking	Process Improvements	Augmented Marking	Tentative Marking	Human Primed Auto-marking	5 Autonomous Auto-marking
Human marking with no automation of activities. Paper or e-marking.	Using machine learning to automate and improve existing operational processes. Automate decision making, improve efficiencies. No influence on marks awarded.	The first level where markers are exposed to machine learning. Markers interact with Al supported functions that augment the marking experience. Al is non-persuasive and does not directly affect the scoring decision.	An Al system that assists a human in marking a paper, suggesting marks or how to mark. No actual marking performed by the Al without human validation. The marker is still in full control and could mark a paper completely independently. Al may indirectly influence marks awarded.	An auto-marking Al that can award definitive marks based on learning from a human-marked data set. Human priming ensures that the engine carries the qualities and preferences of human markers.	A fully automated marking AI. No human assistance required other than the marking scheme. The AI is intelligent enough to make judgements based on the mark scheme. This AI is the sole marker of examinations.