

Risk ID	Description	Category	Probability	Impact	Score	Priority	Response Strategy	Owner	Monitoring Plan
R001	Poor data quality or incomplete historical datasets.	Data	Medium (2)	High (3)	6	Critical	Mitigation. Conduct a data quality audit and establish a pre-processing pipeline.	Lead Researcher	Conduct data quality audit in Phase 1, establish pre-processing pipeline
R002	Data privacy and informed consent compliance failure.	Data	Medium (2)	High (3)	6	Critical	Avoidance. Engage with legal/ethical boards to draft compliant consent forms and protocols.	Project Lead	Pre-project legal review and consent form approval
R003	Bias in computer vision models due to non-representative training data.	Data	High (3)	Medium (2)	6	Critical	Mitigation & Monitoring. Use fairness metrics during model validation.	Data Scientist	Regular model fairness audits and metric tracking
R004	Client (Peter Warner) availability for interviews and feedback.	Stakeholder	High (3)	Medium (2)	6	Critical	Mitigation & Monitoring. Schedule regular meetings and propose a proxy.	Project Lead	Schedule regular check-ins; identify proxy for feedback
R005	Non-technical staff/student resistance to the new toolkit.	Stakeholder	Medium (2)	Medium (2)	4	Moderate	Mitigation. Use user-centric design and testing, including workshops and training.	User Researcher	Conduct usability testing and user workshops throughout project
R006	Inadequate accuracy of chosen research methods/models.	Methodology	High (3)	High (3)	9	Critical	Contingency Planning. Prepare a "Plan B" to shift to a more reliable method or re-scope.	Technical Lead	Test model accuracy on small datasets before full implementation
R007	Insufficient computational resources leading to bottlenecks.	Methodology	Medium (2)	Medium (2)	4	Moderate	Mitigation & Contingency. Conduct a hardware assessment and prepare a cloud-based solution.	Technical Lead	Initial hardware assessment and prepare for a cloud-based alternative
R008	Cloud deployment and integration challenges.	Methodology	Medium (2)	Medium (2)	4	Moderate	Mitigation & Contingency. Conduct a cost-benefit analysis of cloud providers.	Technical Lead	Conduct a cost-benefit analysis and prepare a workaround for streaming
R009	Project scope creep beyond available time.	Timeline	High (3)	High (3)	9	Critical	Avoidance & Monitoring. Implement a clear governance protocol for "optional" modules.	Project Lead	Implement formal change control for all new feature requests
R010	Team member availability conflicts (especially a single-person project).	Timeline	High (3)	High (3)	9	Critical	Contingency Planning. Cross-train team members and maintain a comprehensive code repository.	Project Lead	Cross-train team members and maintain comprehensive documentation
R011	Client approval delays affecting the schedule.	Timeline	Medium (2)	Medium (2)	4	Moderate	Acceptance & Monitoring. Build in buffer time and send clear, advance summaries.	Project Lead	Build in buffer time and send meeting agendas/deliverables in advance
R012	Regulatory or policy changes affecting the project's data collection.	External	Low (1)	Medium (2)	2	Low	Monitoring & Acceptance. Periodically review university data policies and legal updates.	Project Lead	Periodic review of university data policies and legal updates
R013	Competitive landscape shifts and new technologies emerge.	External	Low (1)	Low (1)	1	Low	Acceptance. Acknowledge the project's academic, customized nature.	Project Lead	None required, as risk impact is minimal