

RISK REGISTER

Project Title: Improving the reliance of gas networks to cold spells using machine learning
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ID	Date raised	Risk description	Occurrence	Severity	Risk Criticality	Owner	Mitigating action	Contingent action	Progress on actions	Status
1	25/1/2024	Incomplete or innaccurate data could skew model training	2	2	Medium	Mishara	Verify sources and perform robust data cleaning	Reassess the data sources and possibly seek additional data and retrain the model		Open
2	25/01/2024	Selected machine learning algorithm may not perform adequently	1	3	Medium	Mishara	Pre-test algorithms on a smaller scale to guage performance	Choose a different machine learning algorithm and reassess		Open
3	25/01/2024	The project may run over the available time frame	2	3	High	Mishara	Prioritize essential tasks and set realistic deadlines	Further simplify the project scope and improved time management		Open
4	25/01/2024	Software or hardware risks could delay project progress	1	2	Low	Mishara	Regularly backup work and maintain software updates	Have backup equipment to minimize downtime		Open
5	25/01/2024	Model may become too complex to train within the time frame	2	2	Medium	Mishara	Simplify the model and use efficient trainin methods	Use pre-trained models		Open
6	25/01/2024	Events such as policy changes or significant climate events could impact the project relevance	1	1	Low	Mishara	Stay informed about related external events and adapt project scope as necessary	Diversify project scope in order to accomodate for policy or climate changes		Open
7	25/01/2024	Errors in coding and model implementation could result in incorrect results or system failure	3	2	High	Mishara	Rigorous coding review and testing phases	Additional debugging and validation tests in order to ensure reliability of model implementation		Open
8	25/01/2024	Unauthorized use of copyrighted materials	1	2	Low	Mishara	Ensure all material used is properly referenced	Immediately remove all copyrighted material or give credit through referencing		Open
9	25/01/204	Project scope creep	3	3	High	Mishara	Implement a robust scope management plan, which clearly defines the project's scope and deliverables	Adjust the research and timelines accordingly in order to focus on core objectives		Open