

ECS Project Safety Plan

Name: Thomas Green

Project Name: Implementation of a Privacy-Preserving Machine Learning Model Using Fully Homomorphic Encryption

Dates of Project Start and Project Finish Start: 17/03/2025, Finish: 15/10/2025

Please Complete Risk Analysis - See included example

Is the Risk profile of the project

Major	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Medium	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Minor	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>



What is the highest risk in your project.

I have three medium impact risks in relation to human-factors (prolonged computer use), data security (loss of work or files), and mental health (fatigue or stress). I have applied the appropriate controls and mitigations to these issues.

Safety Plan

Risks and mitigations

Category	Hazard	Risk	Impact	Controls/Mitigations
Human-Factors	Prolonged Computer Use	Repetitive Strain Injury, Eye Strain	Medium	Take regular breaks (every 1 hour), maintain proper posture, adjust screen height and lighting
Electrical	Use of Personal Laptop and Charging Equipment	Electrical Faults, Overheating	Low	Ensure cables are in good condition, avoid overloading outlets, and use tested power sources
Data Security	Loss of Work or Sensitive Files	Accidental Data Deletion or Breach	Medium	Use version control (GitLab), back up code regularly, follow good data handling practices
Mental Health	Project Stress or Fatigue	Reduced Well-Being, Burnout	Medium	Set manageable goals, communicate with supervisor, maintain healthy study habits

		Consequence					
		How severe could the outcomes be if the risk event occurred? 					
		1 Insignificant	2 Minor	3 Significant	4 Major	5 Severe	
Likelihood	 What's the chance the of the risk occurring?	5 Almost Certain	5 Medium	10 High	15 Very high	20 Extreme	25 Extreme
		4 Likely	4 Medium	8 Medium	12 High	16 Very high	20 Extreme
		3 Moderate	3 Low	6 Medium	9 Medium	12 High	15 Very high
		2 Unlikely	2 Very low	4 Low	6 Medium	8 Medium	10 High
		1 Rare	1 Very low	2 Very low	3 Low	4 Medium	5 Medium