***Project Idea Submission – Daniel Jameson T00158237***

Missing person location.

Gathering the location of missing people is an often time consuming and expensive process.

This project will aim to provide a platform for analysing terrain and nearby areas to see where the most likely location of a missing party is. It will train itself on map data such as physical maps to find the most likely location someone may consider travelling if they get lost. I could use the last known location of a person to gather information on where they may go next. Ranking these possible locations would provide search and rescue teams with the ability to make the most efficient use of their time searching, as the first few hours and days are the most critical in locating the missing person.

Interactive map to see locations. Maybe designed myself. Tie personal information into it maybe. More detailed analysis of area needed? Possibly use satellite imagery. Use a hard example to make a point. Photogrammetry used for assessing the mountains. Other options include physical maps and Google Earth maybe. I’m leaning towards the latter because it would be openly available and without any form of copyright issues.

Use Slieve Mish Mountain range as an example. The example used needs to be moderately complex as to demonstrate the effectiveness of the system properly.

Basically this. <https://www.vodafone.com/news/technology/drones-ai-mountain-rescue-missions-romania>

Dude who scanned a mountain. Might have to use substitute data if getting data on local mountains or trails is prohibitively difficult. <https://www.youtube.com/watch?v=gdd31rgS1q8>

The project idea would use graphs and pathfinding algorithms to determine the most effective areas to search.

Idea 2 – Financial Fraud Detection System

This idea would use an AI driven Fraud Detection System to detect suspicious activity that may indicate that a customers account or financial information may be compromised. It could analyse transactions and activity of an account to decide if an account needs to be put on hold.