

Incident Social Listening

Description:

Sea to Sky gondola was shut down last year due to an incident that its cable had been cut and caused 31 cabins to fall down on the ground. An ammonia leak in a Fernie hockey rink killed 3 people in 2017. Incidents are rare but it happens. Once it happens, the damage can be fatal. Technical Safety BC investigate reported incidents and prevents them from happening in 7 technologies: Electrical, Gas, Elevating Devices, Boiler and Pressure Vessel, Passenger Ropeway(ski lifts), Railway and Amusement Devices(PNE, trampoline park) in the BC province.

We need insights from data to make plans for prevention and education. The insights can be but is not limited to how many of them happened, what are they, resolutions, their geographic distribution, correlation with demographic distribution, people's comments and complains about them, etc. In this project, students will build a tool that can collect as much information online as possible, illustrate the insights and find pattern from them around the technologies we are mainly interested in: Electrical, Gas, Elevating Devices, Passenger Ropeway, Amusement Devices. You are welcome to explore other technologies you are interested.

The skills you will gain from this project and make you a competitive candidate in the job market:

- Awareness of public safety
- Ability to crawl public information online
- Ability to analyze text, including cleaning, sentiment analysis...
- Ability to build a whole data pipeline

Dataset:

Online News, Facebook, Twitter, Reddit, Statistic Canada...

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Technical Safety BC

Who We Are and What We Do

Technical Safety BC is an independent, self-funded organization that oversees the safe installation and operation of technical systems and equipment across the province. In addition to issuing permits, licences and certificates, we work with industry to reduce safety risks through assessment, education and outreach, enforcement, and research.

Our Vision

Safe technical systems. Everywhere.