CWSF 2014 - Windsor, Ontario

Kelvin Zhang

Detecting cyber-bullying through data mining

Challenge: Information
Category: Junior
Region: Greater Vancouver
City: Coquitlam, BC
School: Hillcrest Middle School
Abstract: Bullying is becoming one of the most dangerous topics on the internet today as it progresses. Many teenagers have already fallen to it, such as Amanda Todd. In my project, I use data mining techniques and concepts to achieve a system that gathers data from Twitter, analyzes them, and returns a list of the top bullying suspects.

Biography

Hello, I'm Kelvin. I am currently in Grade 8; attending a public school in Coquitlam, BC. I love computers, and have a passion in all aspects of technology. In my spare time, I enjoy programming and Graphic Design. I am a straight A student in school, and love skiing, swimming, and badminton. This is my second time attending CWSF, and I love it. My project idea came from a local incident, where Amanda Todd committed suicide after being cyber-bullied online. Her legacy inspired many, including me. I am trying to reduce the risk of cyber-bullying online, as it is one of the most dangerous topics on the internet today. An early version/application of my project came from Skiing. My parents and I were looking for ski boots on Craigslist. I was too lazy to check Craigslist for fresh results, making me create an automated bot that takes data and forwards it to my eMail whenever a fit was found. In the future, I could make a more accurate system and cover more media sites. For anyone wanting to start an engineering project, I would recommend finding a need that needs to be fulfilled, and create a project you're passionate on.

Awards	Value
Challenge Award - Information - Junior Sponsor: Youth Science Canada	$500
Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	$300
Western University Scholarship Silver Medallist - $2000 Entrance Scholarship Sponsor: Western University	$2 000
Total	$2 800