

CWSF 2017 - Regina, Saskatchewan



Rahman Tawhid

A Novel Method in Predicting Chronic Disease

Challenge: Health

Category: Intermediate

Region: Cariboo Mainline

City: Kamloops, BC

School: Sa-hali Secondary

Abstract: Data Mining is the practice of examining databases to generate new information. The objective, is to use data mining algorithms, on datasets derived from the Public Health Agency of Canada, and UCLA, to generate accurate predictive models, that can predict early stages of a Chronic Disease, or different features of a Chronic Disease for specific years, & implement these models in a functional mobile application.

Biography

Rahman Tawhid is in grade 10. My interest is solving real life applications based on health and computer. I like to explore and dig in problems regardless the time spent. I've anticipated in Science Fair since 2011. I was a co-investigator for a project on using solar energy for cooking and entered it in 2011. Another project was using a Raspberry Pi to measure the temperature inside home and controlling it outside your home. I also designed an app to cut the bill of electricity at home. I decided to focus on the health industry this year, in finding a solution to fighting Chronic Disease. I used the field of Data Mining in working with a dataset provided from the Public health Agency of Canada, and came up with predictive models to predict early stages of a certain disease or features of a disease, and put it in an app. A long term for this project is to extend this app from residential to industry. It is important to select a project that will be useful to our real life problems, it is essential that you continue in the project to enhance it as much as you can.

Awards

Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000