



## CWSF 2018 - Ottawa, Ontario



## Augmenting Hearing Capabilities of the Deaf with Natural Language Processing

Challenge: Innovation Category: Senior

Region: City: School:

Abstract: My project involved developing a portable device capable of transcribing

speech into braille to augment the hearing capabilities of the deaf. The device is able to recognize speech via a speech recognition software that I built using a category of AI called machine learning. This solution solves a lot of problems with current solutions, being easy to use and completely

independent of visual cues.

Awards	Value
Excellence Award - Senior - Silver Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$2 000
Senior Silver Medallist - \$2,000 Entrance Award	
Sponsor: Carleton University	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$10 500



