ANNEX B

Winners of Code::XtremeApps:: 2018

Junior Category – Winners

Prize	Team, Name (Age)	School / Organisation	Submission Description
1st	**Charcoal Leaf** Team members: i. Darion Tan Rui Yu (11) ii. Austin Lim (11) iii. Ashir Sai Kapoor (10)	i. Rosyth School ii. St Stephen's School iii. Overseas Family School	(In response to challenge to develop an AI empowered application to assist and improve daily lives) The winning teams produced solutions that best met the challenge of creating a smart virtual vending machine. The challenge involved training the AI models by adding use cases to teach the vending machines to dispense food items in line with the needs of a person based on weight, age and activity level.
2nd	**Konvicshon** Team members: i. Nahshon Lau (11) ii. Kate Low Li En (9) iii. Victor Wee Yi-De (9)	i. Nan Hua Primary School ii. Singapore Chinese Girls' School iii. Nanyang Primary School	
3rd	**SgCoders** Team members: i. Roshan Panicker (11) ii. Phoo Chuan Teck (10)	i. Saint Joseph Junior ii. Chong Zheng Primary School iii. Tao Nan School	

	iii. Onno Elwin de Regt (11)		

School Category – Winners

Prize	Team, Name (Age)	School / Organisation	Submission Description
1st	**DefinitelyHappenStance** Team members: i. Chen Yiyang (19) ii. Dai Tianle (18) iii. Tan Xiaochen (20)	Dunman High School	(In response to challenge #4 – Using AI to spot fake news) The solution focuses on fake social media posts on Twitter as a plugin. After scraping the user & post info, it is sent to an API hosted on Heroku, which evaluates the credibility from aspects of key information, unbiased detection, influence of the post (in terms of the retweet numbers), evidence of the same news on reliable websites & credibility of the author. After processing, the API will send the result back, and be rendered in the plugin.
2nd	**RGS Team 1** Team members: i. Ang Kang Rong Roy (17) ii. Zheng Ching Chan Kyle (17) **iii.** Tang Yetong (17)	NUS High School	(In response to challenge #5 – Seamless AI on health, safety and orders) The solution is called Baby Ready, an AI that does virtual and auditory monitoring of babies. Firstly, using video IPS with motion detection, the AI alarms the caregiver when the baby escapes from its cot or baby fence. Secondly, the AI utilises a pre-trained deep learning model to predict the reason for baby cries, and responds to it appropriately.
3rd	**H4x0rs** Team members: i. Lye Wen Jun (17)	i. Hwa Chong Institution ii. Nanyang Girls' High School	(In response to challenge #5 – Seamless AI on health, safety and orders)

	ii. Jamie Wee (14) iii. Erica Ong (14)	iii. UWCSEA Dover	Terrorism is a very real problem, and public security agencies such as the police need information about the attack as it unfolds. The team's solution collects a variety of data (GPS, heart rate data, accelerometer, CCTV, tweets, details about the event e.g. terrorist appearance) which each add to the understanding of the incident. By integrating all these data into a single display with a dashboard with data visualisations, the solution detects and tracks events unfolding and improve public safety.
Merit Award	**Cheat Codes** **Team members:** i. Liew Wei Pyn (13) ii. Vikram Ramanathan (13) iii. Lim Li Xin (13)	NUS High School of Maths and Science	(In response to challenge #1 – Data Visualiser) The solution can retrieve any number of search results and display a summary of all search results, as well as perform sentiment analysis and topic modelling through Natural Language Processing.

Open Category – Winners

Prize	Team	School / Organisation	Submission Description
1st	**Artificial Idiot** Team members: i. Yeo Zhao Yik Francis (19) ii. Zhao Fengye (24)	Singapore Polytechnic	(In response to challenge #5 - Seamless AI on health, safety & orders & #6 - Autonomous drones & intelligent video analytics) The solution uses drones to prevent hazards to people by inspecting damaged infrastructure safely. This can be applied in areas of disasters and normal day to day inspections. In disaster struck areas, the algorithm can be used to map transport routes

	iii. Lau Wei Yang Jeffery (19)		first responders can take as some roads will be broken by the disaster.
2nd	**SW7** Team members: i. Ni Weijun Benjamin (25) ii. Choo Jia Hui (24) **iii.** Goh Jia Ying (26)	i. SecureAge Technology ii. ST Engineering Electronics iii. DSTA	(In response to challenge #5 - Seamless AI on health, safety & orders) Public safety and order is important in airports. The solution proposes an extensible command and control system integrating data from static CCTV cameras and mobile security guards to provide useful, real-time security alerts, enabled by deep learning, projective transformation, and a live analytics dashboard.
3rd	**Mates** Team members: i. Wan Ding Yao (22) ii. Tan Yu Xin Glenice (22) **iii.** Ng Kok Yin (21)	i. SMU School of Law ii. NUS School of Computing iii. SMU School of Social Sciences	(In response to challenge #4 - Using AI to spot fake news) The solution is a Telegram bot called "FakeMeNot" that pipes messages and tweets through a logistical regression model built with data scraped from multiple government and satirical sites. If the probability of truth is greater than 50%, it reports back a likeliness of truth, and vice-versa. Additionally, key words from the message are extracted using Rake NLTK & passed through Google Custom Search which retrieves news articles for the user to personally evaluate. After all, machines can't be completely trusted and most effective solution occurs when machine and user work together.

For media clarifications, please contact:

Angie LOW (Ms)
Senior Manager, Communications & Marketing, IMDA
DID: 6211 0599
Email: angie_low@imda.gov.sg

Eugene NEUBRONNER (Mr)
Manager, Communications & Marketing, IMDA
DID: 6211 1182
Email: Eugene_neubronner@imda.gov.sg