Sascha Bodak

Generating Musical Accompaniment Using Machine Learning

Challenge: Information
Category: Senior
Region: Thames Valley
City: London, ON
School: A.B. Lucas S.S.

Abstract: From image recognition to natural language processing to genetic research, learning algorithms that are capable of using past information to model patterns have become a major part of modern life whether the average person realizes it or not. In this project, a novel deep learning algorithm that is capable of producing a sophisticated musical accompaniment to a given melody is presented.

Biography

My name is Sascha Bodak. In the future I hope to become a Software Engineer. My hobbies include reading, programming, and writing music. My love for music and computer science inspired this science fair project. I would urge anyone interested in starting their own project to find a great mentor who can guide you through the important steps required to bring your idea to life.

Awards	Value
Challenge Award - Information - Senior Sponsor: Youth Science Canada	
Excellence Award - Senior - Gold Medal Sponsor: Youth Science Canada	$250
Dalhousie University Faculty of Science Entrance Scholarship Senior Gold Medallist - $5000 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	$5 000
UBC Science (Vancouver) Entrance Award Senior Gold Medallist - $4000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	$4 000
University of Manitoba Entrance Scholarship Senior Gold Medallist - $5000 Entrance Scholarship Sponsor: University of Manitoba	$5 000
University of Ottawa Entrance Scholarship Senior Gold Medallist - $4,000 Entrance Scholarship Sponsor: University of Ottawa	$4 000
Western University Scholarship Gold Medallist - $4000 Entrance Scholarship Sponsor: Western University	$4 000
Total	$22 250