


**Imagine Cup**

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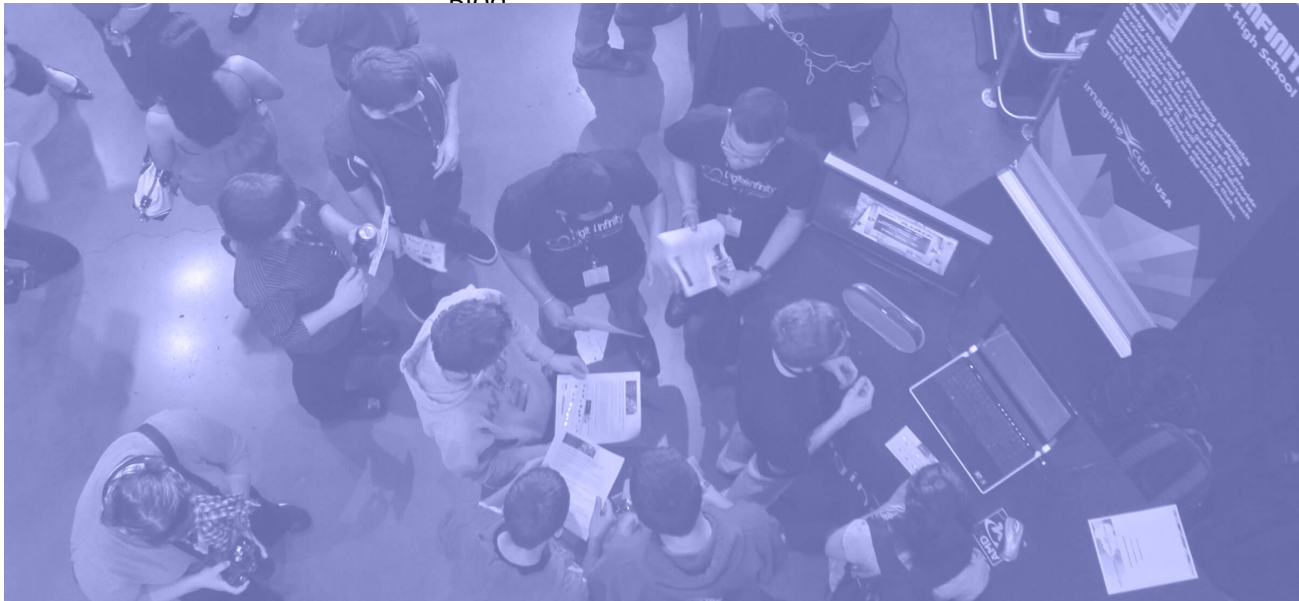
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## Team Gallery

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## Project Overview

Our Project is a Image Classification Model Python for Detecting Pneumonia from X-ray Images. By loading Chest X-Ray Images (Pneumonia) Dataset, and exploiting Image Classification, we spent a week to build a CNN Image Classification Python Model from Scratch. During the process, although we encountered a limited

resource of implementing Transfer Learning, which is a technique of using pre-trained neural networks, we evaluated the Performance of the Image Classification Model. Through Azure cognitive services, we trained a model of 5,863 X-Ray images dataset hosted on Kaggle for pneumonia detection.

## About Team

We are a team of 4 different countries: Egypt, Turkey and South Korea. One of us is still in high school, however the main

software developer, who have finished Harvard CS50 Computer Science in 7 days during the quarantine. He is very passionate about


Technologies we are looking to use in our projects

Artificial Neural Networks    Azure  
Cognitive Services or other AI    Javascript  
Machine Learning    Python

Social Media  
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# Meet the 2022 Imagine Cup World Finalists

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By  Student Developer Evangelism Team

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The 2022 Imagine Cup is where passion meets innovation—a place where students can build together with like-minded peers around the world to make a difference. Over the past 20 years of the competition, students have created inspiring and inclusive projects using cutting-edge technologies while developing valuable skills during the journey.

This year, thousands of teams selected one of four competition categories in which to develop a project—Earth, Education, Health, and Lifestyle. Students were invited to join an Imagine Cup kick-off event and participate in the Build Your Epic challenge as a preliminary step in their competition journey. With a global online community, advice from expert mentors, and more training opportunities than ever before, teams of up to four people leveraged innovative tech like AI, Power Platform, and Big Data to develop a project proposal to make a difference in the world.

Out of all the competitors, 48 World Finalist teams have been selected. They now head to the next stage where they will pitch their ideas to expert judges, demo their tech, and engage in a question and answer session as they compete for over USD50,000 in prize. Projects will be judged on their innovative use of Azure technology, accessibility and inclusion, and marketability as a business idea.

The World Finalists will ultimately be whittled down to three, and in May, the 2022 Imagine Cup World Champion will be crowned with the winning team taking home the grand prize of USD100,000 and a mentoring session with Microsoft Chairman and CEO, Satya Nadella.

We are continually inspired by the solutions students create, and while all submissions have been noteworthy, the 2022 competition is advancing with the selection of our World Finalist teams. Congratulations to the winners!

	  <p><b>Manuscrito, Romania</b></p> <p><b>Education category</b></p> <p>This is a mobile app for tablets where kids can learn how to write in an interactive way.</p>
	<p><b>Neural Voxel, Kenya</b></p> <p><b>Health category</b></p> <p>Neural Voxel enables specialists to easily and swiftly diagnose various forms of diseases in MRI and CT scans with much higher accuracy while at the same time reducing the workload and fatigue rates of specialists.</p>
	<p><b>Omega GIKI, Pakistan</b></p> <p><b>Lifestyle category</b></p> <p>Mind Braille is a complete and inclusive brain-computer interface (BCI) package that allows differently-abled individuals to use the power of their minds to perform routine smartphone activities and connect to the Internet.</p>
	<p><b>PnCheck, Switzerland</b></p> <p><b>Health category</b></p> <p>This is a web app that uses a pretrained Convolution Neural Network model to make client-side predictions in chest X-ray images to detect the presence of pneumonia.</p>