

Character Recognition

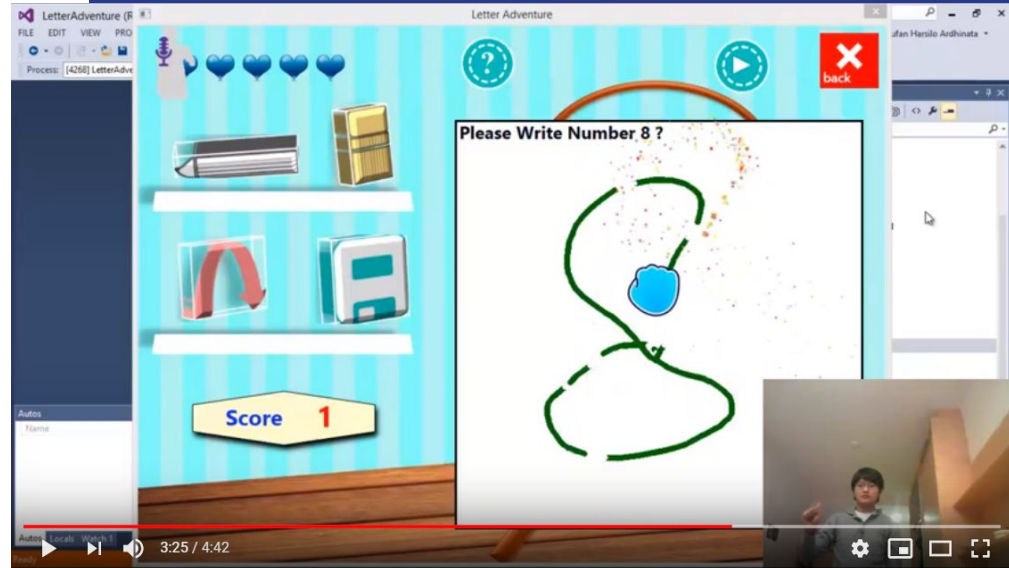
Noviani Litriani, Reinaldy E. Fargo, Santi Amelia Andrini

Problem

Lots of children tend to lose interest when learning somethings new

Solution

Create a character recognition application for more interactive teaching styles.

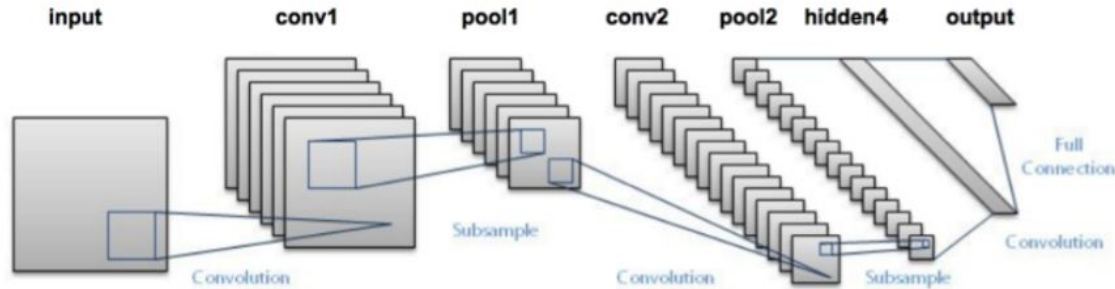


Letter Adventure - Linguistic Educational Game

Solution Features

Algorithm: Convolutional Neural Network (CNN)

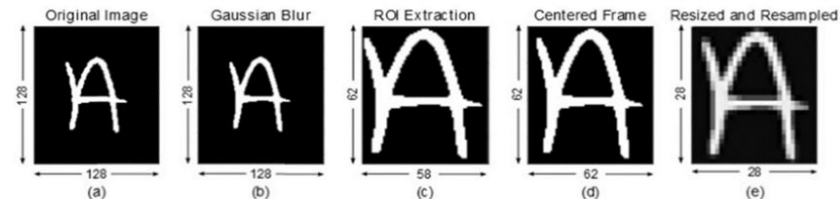
A class of deep neural networks, most commonly applied to analyzing visual imagery. CNNs use a variation of multilayer perceptrons designed to require minimal preprocessing.



Solution Features

- EMNIST Dataset

A set of handwritten digits (0–9), (a-z) and (A-Z) being converted into 28x28 pixel pictures

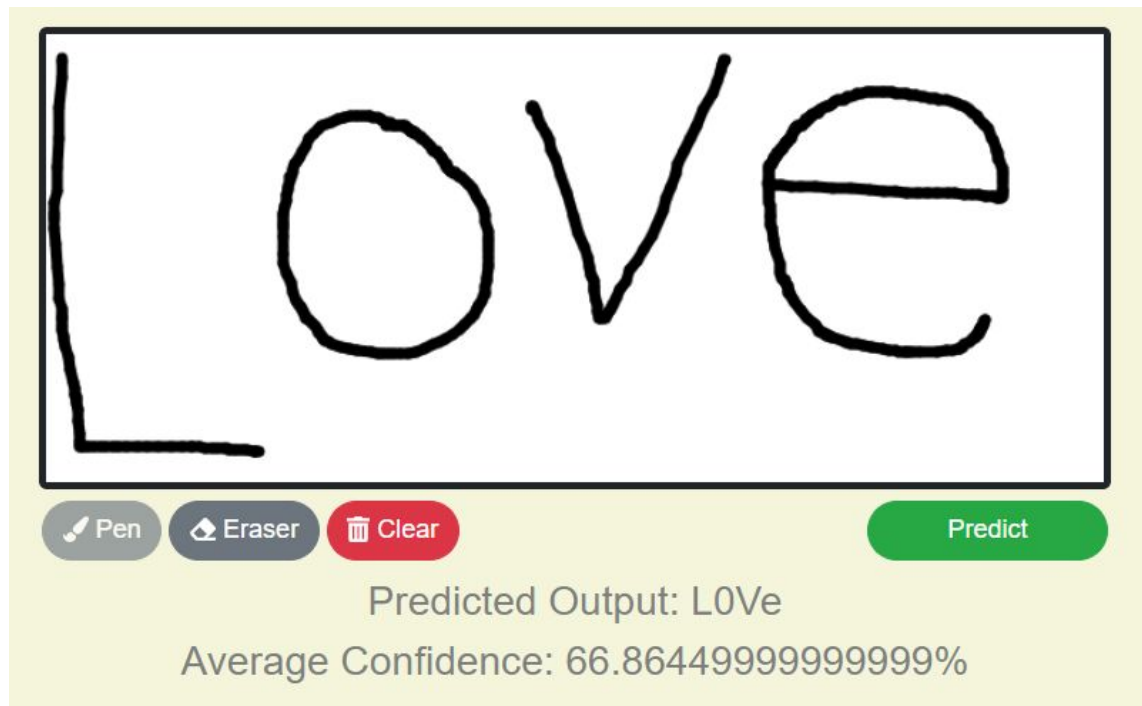


Solution Technologies and Architecture

- Tensorflow
- Keras
- OpenCV
- Flask



Interactive UI



DEMO

