Laikh Tewari

Ms. Chen

Senior Project

May 11, 2018

Evidence of Modes

This week, I focused on researching the theory and background of my project. In my research, I discovered refreshers on concepts that I had experienced in the past, such as the use of deep and convolutional neural networks (DNN, CNN) in image classification, as well as new concepts presented as useful for solving this problem, such as the use of extra random and entangled decision forest (EDF). I found a dataset containing sufficient training and testing data for making a machine learning algorithm, and will most likely use some form of an artificial neural network. As such, I investigated how they are trained and learned about gradient backpropagation. I also learned about preprocessing methods specific for Devanagari script. I began looking into how to structure my paper, and learned about design documents. These documents are common in software engineering projects and used to record decisions and provide constructive insights into both the technical and non-technical perspectives of the project.