Project Report

Speech Classification

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Course: Al and ML
(Batch-4)
Duration: 12 months
Problem Statement: Applying LDA technique on iris dataset to decrease number of features.
Prerequisites
What things you need to install the software and how to install them:
Python 3.6 This setup requires that your machine has latest version of python. The following url https://www.python.org/downloads/ can be referred to download python. Once you have python downloaded and installed, you will need to setup PATH variables (if you want to run python program directly, detail instructions are below in how to run software section). To do that check this: https://www.pythoncentral.io/add-python-to-path-python-is-not-recognized-as-an-internal-or-external-command/ . Setting up PATH variable is optional as you can also run program without it and more

Second and easier option is to download anaconda and use its anaconda prompt to run the commands. To install anaconda check this url https://www.anaconda.com/download/ You will also need to download and install below 3 packages after you install either python or anaconda from the steps above Sklearn (scikit-learn) numpy scipy if you have chosen to install python 3.6 then run below commands in command prompt/terminal to install these packages pip install -U scikit-learn pip install numpy pip install scipy if you have chosen to install anaconda then run below commands in anaconda prompt to install these packages conda install -c scikit-learn conda install -c anaconda numpy conda install -c anaconda scipy

Dataset used:	
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The data source used is IRIS dataset which is an in-built dataset available in scikit-learn library.

Method used for Process:

LDA (Linear Discriminant Analysis)

Screenshots of Source Code and Output:











