CSCD 429-040 HW 2

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Project Structure

Running The Program

NOTE: Before running any of the following commands below, make sure that the current directory is <path to this zip file>/src

Using Conda

Using Conda, run the following commands to create the environment to run the program in (this will handle the Python version and packages):

```
$conda env create -f environment.yml
$conda activate cscd429-hw2-blake-chalpin
```

Once the Conda environment is created and activated, run the program with the command:

```
$python main.py
```

Without Conda

If you do not have Conda installed, the Python packages may still be installed using the following command:

```
$pip install -r requirements.txt
```

Note: Python 3.8 is used for this project

Once the Python packages are installed, run the program with the command:

```
$python main.py
```

Methods Used

Performance

Accuracy

The overall accuracy of the 3 Nearest Neighbors (KNN with k=3) classification model using the entire training data set to predict our test set is 45.779%.

Results File

The results of our prediction are stored in the "results file" name $\verb"results.txt"$