CS464 Project Proposal

Project Title: Recognition of Handwritten Documents

1. Team Members

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2. Description of the Data

Our dataset[1] contains more than 400k handwritten names and surnames, and their text interpretations. Each handwritten name or surname is a jpg file.

3. Precise Description of the Question

We plan to teach an algorithm how to read handwritten text. To achieve this, we will use a large database that only contains handwritten names and surnames. However, by teaching the algorithm to read names, we hope it will also be able to read all handwritten text.

4. What We Plan to Achieve by the Milestone

By the progress demo, we plan to:
- Decide on the language, libraries, technologies we will use for the project
- Learn how to use a machine learning library.
- Share workload among group members
- Preprocess data to standardize the input
- Decide on the model(s) we will use
- Try a simple model on data and obtain an initial result

By the final demo, we plan to:
- Improve our initial result by using more complex models
- Compare the results of all the models we previously tried
- Present our results

[1]Kaggle.com. 2021. *Handwriting Recognition*. [online] Available at:
<https://www.kaggle.com/landlord/handwriting-recognition> [Accessed 31 October 2021].