



# Handwritten Signature Forgery Detection

## Project Proposal for CNN

### Abstract:

Handwritten signatures are very important in our social and legal life for verification and authentication. A signature can be accepted only if it is from the intended person. The probability of two signatures made by the same person being the same is very less. Many properties of the signature may vary even when two signatures are made by the same person. So, detecting a forgery becomes a challenging task. In our project, a solution based on Convolutional Neural Network (CNN) is presented where the model is trained with a dataset of signatures, and predictions are made as to whether a provided signature is genuine or forged.

### Question/need:

The goal of this project is to detect the forgery signature. Banking, Insurance, Healthcare, Copyright, and Intellectual Property Rights, Regulatory and Government Compliance will benefit from this project.

### Data:

the dataset contains the signature of user both genuine and fraud. In the dataset the directory number says the name of the user and its classified into two : Genuine with the own user number and fraud with the user number + "\_forg

Found the dataset on the Kaggle website: [Here](#).

### Tools:

- Technologies:

Python -Jupyter Notebook.

- Libraries:

Pandas –NumPy –Matplotlib –Seaborn – Keras – sklearn – Tensorflow - cv2 – os - glob

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