

Technology Bucket : Life Sciences

Company Name: Sun Pharmaceutical Industries Ltd.

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Category: Software

Problem Code : DD1

College Code : 1-314430950

IDEA

To develop a deep learning model to compare the chromatography result and determine if it lies in the standard limits given by the lab

We use

Deep learning
(CNN to be exact)

Idea / Approach details

1. Form a dataset by manually and taking their photos.
2. Train the CNN model on the dataset and use it to predict whether a given chromatography result lies in the given limit.

Data: Older Chromatographic data along with the desired output

Hardware: Raspberry Pi(For Deployment)

Software: Python with installed packages (TensorFlow, Keras)

Algorithms: Image classification using Convolutional Neural Networks