

MINOR PROJECT PROGRESS REPORT

“Covid 19 Infection Detection Using Deep Learning”

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SCOPE AND PURPOSE

Our goal is to detect Parkinson disease with the help of various machine learning algorithms and find their efficiency. Our model takes in various voice data sets of the patient and processes it through different algorithms and find their efficiency and select the best algorithm for the disease detection.

In our project we are using machine learning algorithms such as XGBoost, CatBoost and random forest.

we are aiming to create a biomedical and healthcare project for the ease of doctors and patients.

PRESENT WORK

Till this date we have completed major tasks including but not limited to:

- Brain storming the project requirements.
- Importing the required libraries.
- Preprocessing the data
- Summarizing the data: includes data visualization and data cleaning
- Feature selection.

REMAINING WORK

We're now left with few major tasks that includes:

- Evaluation of algorithms – includes splitting, evaluation metric
- Compare algorithms
- Improve the accuracy – tuning parameters and hyperparameters using gridSearch
- Finalizing the model- prediction on validation dataset

EXPECTED RESULT

We are expecting our model to deliver the above 90% accuracy in detecting the Parkinson disease.