



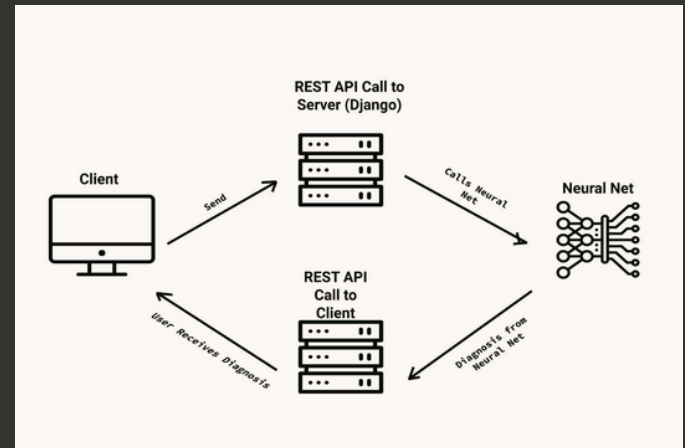
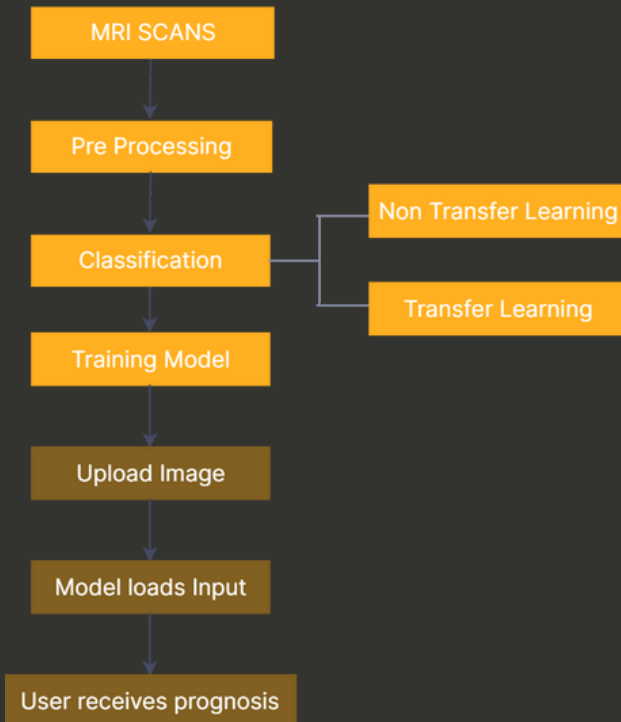
Brain Cancer Classification using advanced AI-based methods

Objectives

- 1 Reduce Mortality Rates
- 2 Controlling Treatment Output
- 3 Scalability
- 4 Cost-Effective
- 5 Usability + Accessibility

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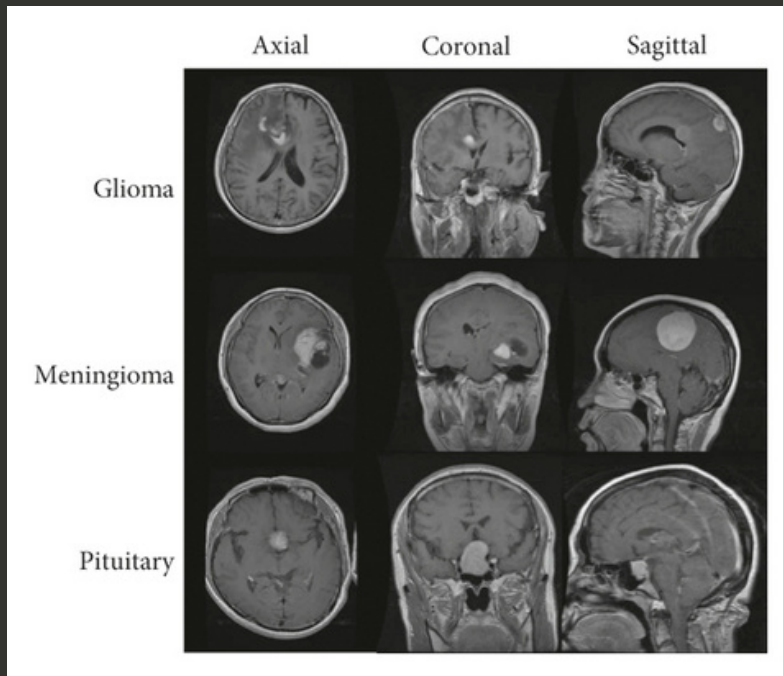
Flow of Development



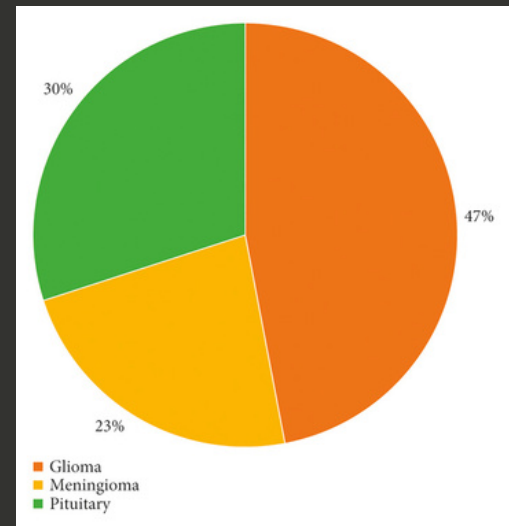
Data Acquisition & Pre-processing

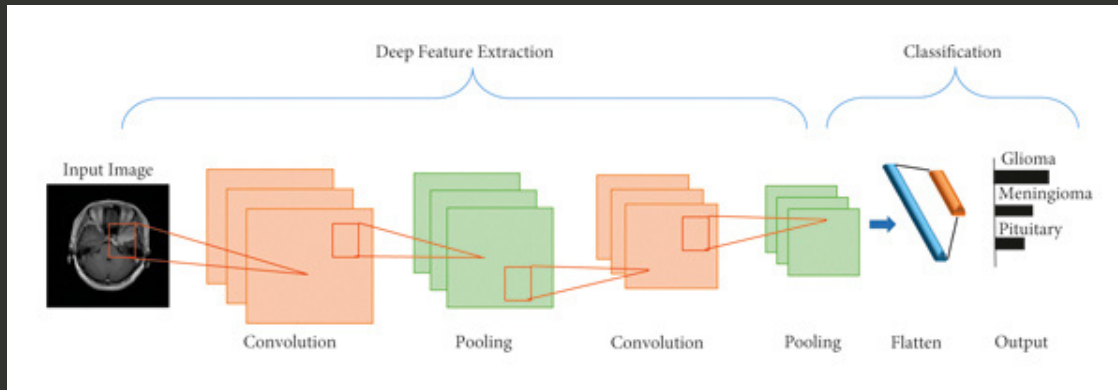


Figshare Brain Tumor Dataset (2017)



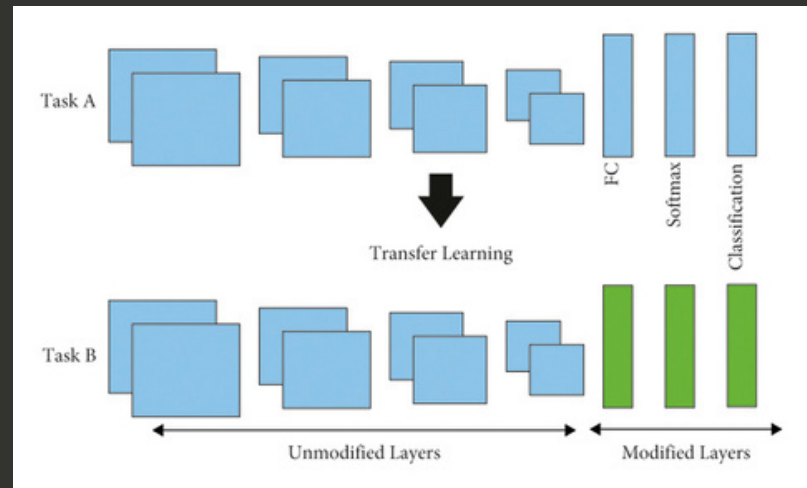
- Min-max normalisation
- Data augmentation





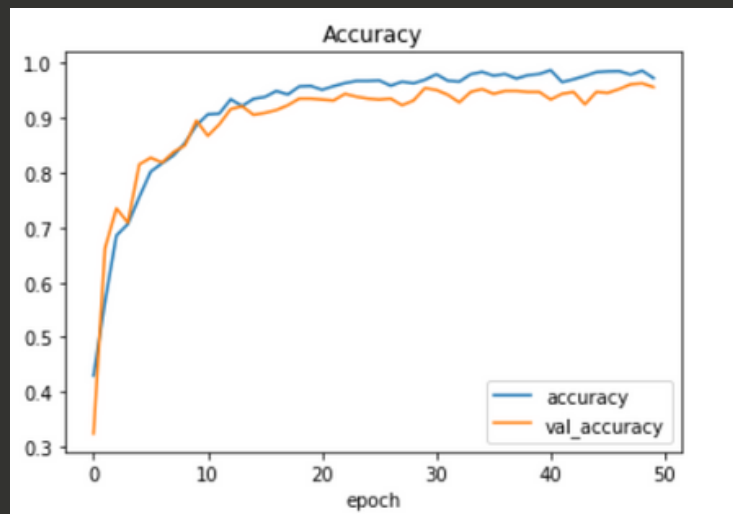
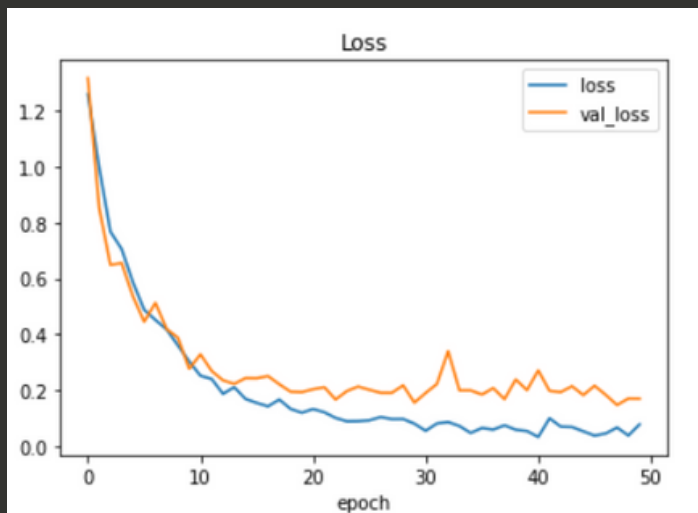
CNN

TRANSFER LEARNING



Result with CNN

- epochs-50
- loss: 0.0789
- accuracy: 0.9730
- val_loss: 0.1709 -
- val_accuracy: 0.9564



Web App

- Streamlit
- Tensorflow
- Keras



Thank You

Contribution

Saumya Panda -B120056

- Data preprocessing
- Data Augmentation
- Model Training

Khushi Sahoo -B120029

- Model Validation
- Integrating the model with streamlit