

Model evalution

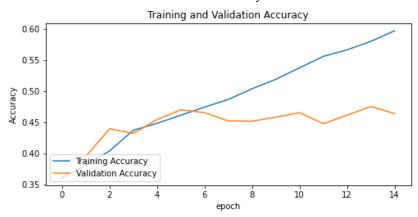
Using Tranfer Learning, instantiating pre-trained model as base

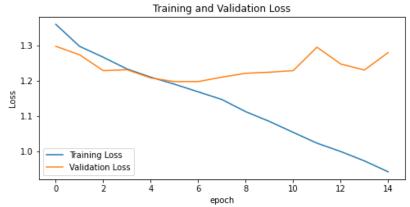
Adding the base model to final model

Model Evaluation

### Results

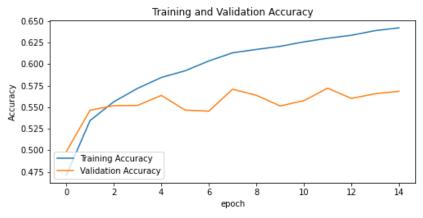
Data Visualization for initial model accuracy





Data Visualization for initial model loss

Data Visualization of model with transfer learning performance accuracy



Data Visualization of model with transfer learning performance loss



# **Conclusions / Summary of Findings**

The model evaluation shows 68% Accuracy

Overfitting occus in both models

Transfer learning greatly improves model performance

# **Next Steps...**

- 1. Build Deep Learning models to other ocular diseases (e.g., Diabetic Macular Edema)
- 2. Pursue other areas of medicine, where we can track disease progression. (e.g., Cancer metastasis)
- 3. Use Deep learning to build models for disease detection (e.g., Pneumonia)

---- dataset : data used for modeling

—— images : images used in PPT and readme

---- dsc-phase-5-project-presentation.pptx : (Presentation for Stakeholders)

Diabetic Retinopathy Image Classification.ipynb (jupyter notebook used for modeling)

#### Releases

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### Languages

Jupyter Notebook 100.0%