Pedro Almeida

Deep Learning Project Proposal

**Title:** Applying ResNet and Inception Module Techniques for Skin Cancer Classification on Breast Histopathology Images Dataset

**Description:** The object of the project is to combine Resnet and Inception Module on a CNN to evaluate the increase in effectiveness of both custom layers together. Both the ResNet and Inception Modules have been proved to greatly increase the accuracy of CNN models in well-known datasets without greatly increasing the computational cost of the model. The object of the project is to combine both models on the Breast Histopathology dataset to analyze their effectiveness.

**Members:** Pedro Almeida (solo project)

**Substitute for Final (Yes / No):** Yes

\* If the topic does not seem sufficiently complex or reasonable to complete within the allotted time, please let me know.