

# **Capstone Two Proposal - Veronica Ferman**

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## **Training a Convolutional Neural Network (CNN) on Fashion Product Image Classification**

This project takes on the exciting field of image classification in an e-commerce context. The dataset is made up of professionally shot high-resolution fashion product images that have been cataloged with descriptive text on their product characteristics.

The first objective of the project is to train a convolutional neural network (CNN) to classify the images into categories. As the project progresses, the second objective will be to build a GANG network that takes a fashion category as input and outputs an image.

The project aims to directly address the needs of e-commerce businesses that require a product catalog to classify and visually search items in an efficient and automated manner.

The dataset comes from Kaggle at

<https://www.kaggle.com/paramaggarwal/fashion-product-images-small>

The deliverables will consist of a report, code, and slide presentation.