

WEEK 1

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Project Name: Neckline Classifier

After deciding on our project subject and writing a project proposal, we started to gather information on the topic, which includes the types of different necklines in clothing and also how to solve our problem.

Objectives:

1. Understanding the Problem
2. Identifying Different Types of Necklines
3. Review of the Dataset

Understanding the Problem:

Problem 1: In online shopping, large fashion datasets or e-commerce platforms manually tagging and classifying each clothing can be a time-consuming task. Since consumers will have preferences in the neckline styles.

Problem 2: For marketers and designers, analyzing the fashion trends and consumer preferences is an important detail. Also, manufacturers will need the market demands to produce clothing.

Identifying Different Types of Necklines

The neckline of a clothing is the edge around the neck. Necklines play a important role in the style and aesthetics of clothing. There are different types of necklines. The image below visualizes some of these examples. The text following gives brief explanation on how to differentiate them.

Reference:

Image: <https://www.mygoldenthimble.com/types-of-necklines/>

Text: https://www.reddit.com/r/coolguides/comments/n2x6eq/neckline_styles/



1. Crew Neck: A round neckline that fits close to the base of the neck. It's a style commonly found in T-shirts.
2. V-Neck: Shaped like the letter "V," this neckline dips down in the front. V-necks can vary in depth.
3. Scoop Neck: A rounded, wider neckline that often exposes more of the neck and collarbone.
4. Square Neck: This neckline forms a square shape across the chest and neck.
5. Boat Neck: A wide neckline that runs horizontally, almost from shoulder to shoulder.
6. Sweetheart Neckline: Shaped like the top half of a heart, this neckline is often found in dresses.
7. Halter Neck: A neckline that wraps around the back of the neck, leaving the shoulders and upper back exposed. It's commonly used in sleeveless tops and dresses.
8. Off Shoulder: The neckline sits below the shoulders, exposing them.
9. High Neck: A high, close-fitting neckline that covers the entire neck. It's often seen in sweaters and provides extra warmth.
10. Keyhole Neckline: A neckline with a small, usually teardrop-shaped, opening that adds a decorative element to the garment.
12. Asymmetric Neckline: A neckline that is higher on one side and lower on the other.
13. Illusion Neckline: A sheer or lace panel that creates the illusion of a particular neckline style.

Review of the Dataset:

We are using a dataset that is labeled. The dataset has been obtained from Kaggle.

Dataset: <https://www.kaggle.com/datasets/vinayaknyk/neckline-classification-for-flatlay-images>

The dataset contains flatlay images of upper/full body clothes. It consists of a 2885 images, these being 621 round, 966 scoop, and 1298 v-neck clothing. The images are in the jpg format. The data is labeled with three categories, round, scoop, and v-neck. The following images are some of the examples the dataset includes from each class.

