

# BMI Prediction Using Face Images

In this presentation, we will explore the fascinating project of predicting BMI using face images. Join us as we uncover the objective, benefits, architecture, and more!



# Introduction

## Objective and Benefits

Discover the purpose and advantages of predicting BMI using face images.

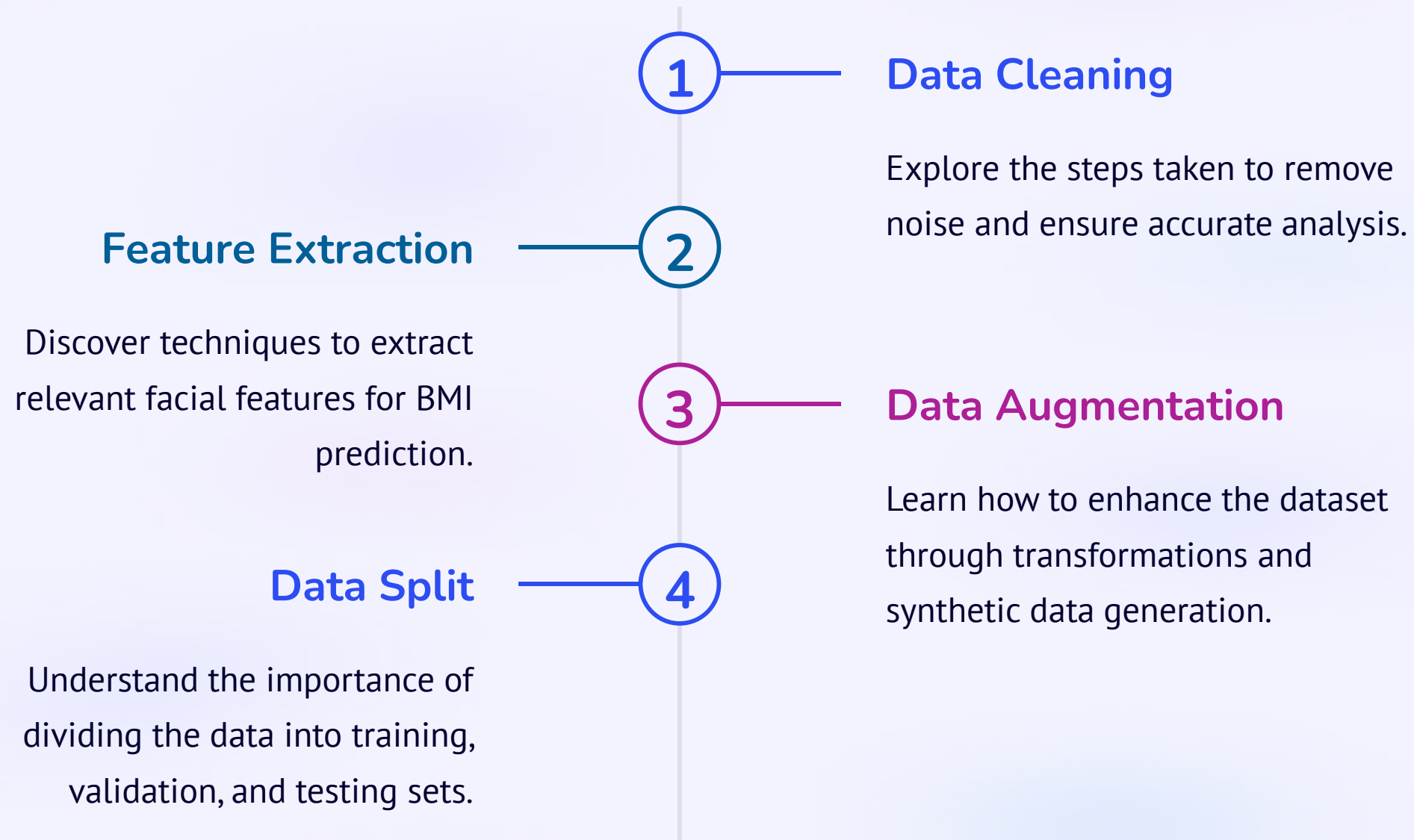
## What is BMI?

Understand the concept of Body Mass Index and its relevance in health assessment.

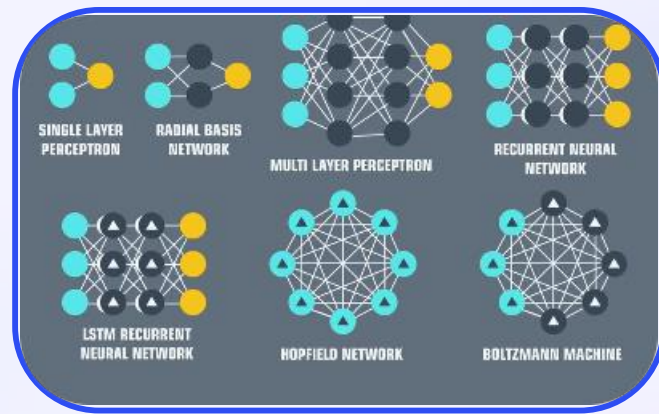
## Data Collection

Learn about the process of gathering face images and associated body measurements.

# Data Preprocessing

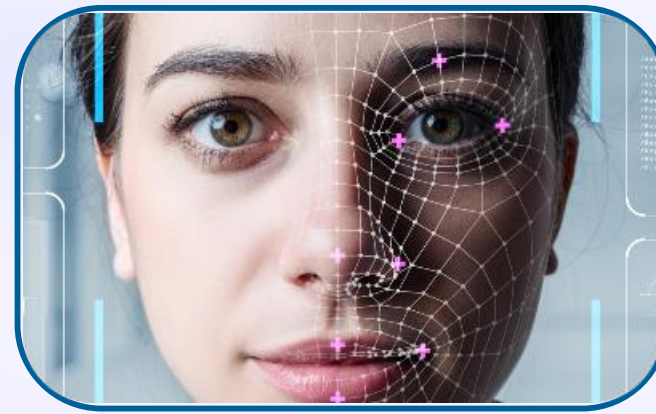


# Model Architecture



## Convolutional Neural Network (CNN)

Explore the specific architecture used to predict BMI from face images.



## Transfer Learning

Discover how pre-trained models can be leveraged for accurate BMI prediction.



## Facial Keypoint Detection

Learn about the integration of facial landmark detection into the model architecture.



# Model Performance Evaluation

## Validation Methods

Cross-Validation

Holdout Validation

Leave-One-Out Cross-Validation

## Performance Metrics

Accuracy, Precision, Recall

F1 Score, Mean Absolute Error

Root Mean Square Error

# Applications and Limitations

## ① Healthcare

Discover how BMI prediction using face images can benefit medical professionals and assist in personalized healthcare recommendations.

## ② Wellness Industry

Explore opportunities to incorporate BMI prediction into fitness apps, diet plans, and wellness services.

## ③ Limitations

Discuss the challenges and limitations of BMI prediction using face images to ensure a balanced understanding.

# Conclusion

As we conclude our journey into BMI prediction using face images, we reflect on the remarkable potential it holds in advancing healthcare and wellness. Join us in shaping a healthier future!



# Thank You

Thank you for joining us in this presentation. If you have any questions or would like to learn more, please feel free to reach out. Together, let's pave the way for groundbreaking innovations!