

# Sentiment Analysis using BERT

# Problem Statement

- Find the sentiments towards several airlines from the tweets posted by their passengers



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After my past experience with Grace & Perry at IAH im never flying  
[@united](#) again 😡🙄



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Airlines should extend free airfare for babies to 3 years in 2021. Their  
parents shouldn't be impacted any further [@SouthwestAir](#) [@AmericanAir](#)  
[@Delta](#) [@JetBlue](#) [@VirginAmerica](#)



My favorite airline! [#iflytheflag](#) [@USAirways](#)



# About the Dataset

- Airlines passengers tweets (6 US airlines)



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- Airlines passengers tweets (6 US airlines)
- 14,640 tweets



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- Airlines passengers tweets (6 US airlines)
- 14,640 tweets
- 3 categories
  - Positive
  - Neutral
  - Negative



# Steps to Follow

- Load Dataset



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- Load Dataset
- Import BERT model and BERT Tokenizer





# Steps to Follow

- Load Dataset
- Import BERT model and BERT Tokenizer
- Data preparation
  - Text cleaning
  - Text encoding
  - Defining dataloaders

 Analytics  
Vidhya

# Steps to Follow

- Load Dataset
- Import BERT model and BERT Tokenizer
- Data preparation
  - Text cleaning
  - Text encoding
  - Defining dataloaders
- Model fine-tuning
  - Defining model architecture
  - Model training and evaluation





Thank You