# SMS Spam Detection using Large Language Models

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# **Objective**

The objective of this project was to develop an SMS spam detector using Large Language Models (LLMs) and subsequently conducting a comparison of these models.

The models used were RoBerta, Bert, DistilBert and AlBert.

Hugging Face served as the primary framework.

#### **Dataset**

The SMS Spam Collection is a set of SMS tagged messages that have been collected for SMS Spam research. It contains one set of SMS messages in English of 5,574 messages, tagged as being ham (legitimate) or spam.

# **Training and Parameters**

Batch size = 16

Epochs = 3

Weight decay = 0.01

Learning Rate = 2e-5

Evaluation Steps = 20

Save Steps = 800















