# **Project Title:** [Fake News Detection]

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## **Q1. Project Overview:** Provide a brief description of your project, including the objectives and scope.

Fake news detection on social media involves identifying and flagging false or misleading information that is being spread through online platforms.

This can be done through various methods, such as fact-checking, machine learning, and community reporting.

Q2. **Goals and Objectives:** Restate the goals and objectives of your project and assess how well you achieved them. Be specific and provide evidence to support your assessment.

Objectives: The main objective of the project is to develop a Python-based system that can automatically detect fake news articles on social media platforms. so far we have done data cleaning, data visualization of original data, and EDA report. we have also developed one homepage for our website.

<https://drive.google.com/file/d/1HcTK9k5tuJVC_T-PIi9-c99pU69coo1e/view?usp=share_link>

This is link of our work

## **Q.3 Methodology:** Describe the methodology you used to complete your project, including any research methods or tools you used. Assess the effectiveness of your process and whether any changes were necessary.

We have used designing and putting into practice a machine learning model in Python, the model will be trained using well-known Python libraries like TensorFlow, Keras, or Porch on a sizable dataset of phony and real news stories. We have also used tableau for the Graphic presentation of data, also used excel to keep track of and update work and progress i

n detail.

## **Q4. Results:** Describe the results of your project, including any key findings or insights you gained. Assess the significance of your results and their contribution to the field.

So our Latest project progress is we have developed a base model of our final project which is the stream lit app. so, we have created one home page for our website. Still need to finish the final goal.

Key finding: Researchers can compare the performance of different models that use various features and techniques, such as linguistic analysis, social network analysis, and machine learning algorithms, to detect fake news. This can help identify the most effective techniques and features for detecting fake news.

Also

## **Q5. Reflection:** Reflect on your overall experience with the project. What were some of the challenges you faced? What did you learn? How did you grow because of this project?

So far Experience is good learned many new things as working in team .every members are from different backgrounds so it's good to be able to understand from different perspectives, and different ideas. Team management and Listening skills have been improved. Also, large amounts of labeled data can be used to train and test the system. However, creating such data sets can be challenging as it requires identifying and verifying the authenticity of news articles, which can be time-consuming.

## **Q6. Conclusion:** Summarize your project and its outcomes and assess its success. What impact do you think your project will have on the field or community it serves?

fake news detection project typically involves developing a system or algorithm that can automatically classify news articles as either fake or genuine. This involves collecting labeled data, identifying key features, and using machine learning or other techniques to train a model that can accurately classify news articles.

So we haven’t finished the project yet but we have some development in work which is the home page of our stream lit app.

Impact: The impact of a successful fake news detection project can be significant, as it could help to reduce the harmful effects of misinformation on individuals and communities. It can help people to identify and avoid fake news articles, reduce the spread of false information, and ultimately promote a more informed and engaged society.

## **Q7. Future:** Work Identify any areas for future work or research related to your project.

These are our Future work areas,

Python Model Creation

* Model Testing
* Analysis
* Features:
  1. Multimedia news detection
  2. Updating the list of words by Text vectorization

Apart from this, we can also do some other development like ross-lingual fake news detection: fake news is prevalent in many other languages as well. Therefore, there is a need to develop fake news detection systems that can work with content in multiple languages.

## **Q8. Acknowledgments:** Acknowledge any individuals or organizations that contributed to your project.

I would like to Acknowledge St. Clair college for giving us an opportunity to work on this project. I also would like to Acknowledge Professor M.palisot for their constant feedback, guidance, and motivation on how we can be better