

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING - CYBER SECURITY**  
**IV B.TECH II SEMESTER MAJORPROJECT-2024**  
**SUBMITTED BY**  
**BATCH -04**

# **FAKE JOB POST DETECTING SYSTEM USING MACHINE LEARNING**

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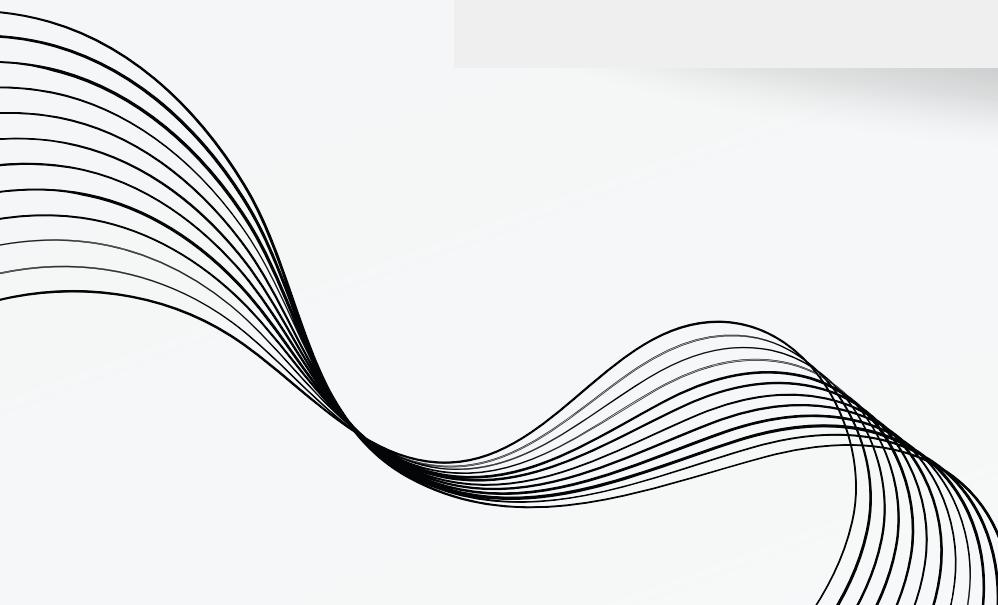
# ABSTRACT



The proliferation of fake news and fraudulent activities, particularly in the realm of online job postings, poses significant challenges to both individuals and organizations.



In response to this pressing issue, this project conducts a comprehensive analysis of research related to fake news detection. It explores the application of traditional machine learning models for identifying and mitigating fraudulent job postings on the internet.



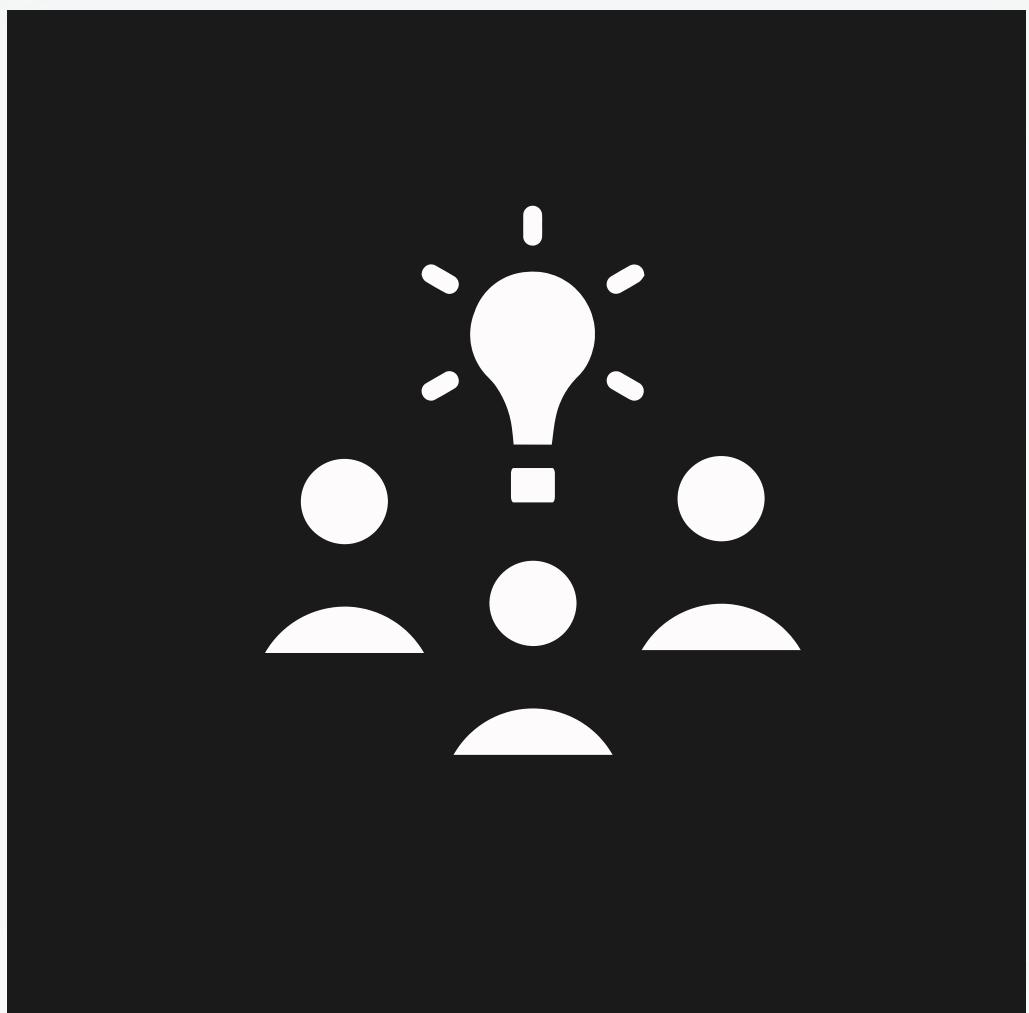
# INTRODUCTION

- Employment scam is one of the serious issues in recent times addressed in the domain of Online Recruitment Frauds (ORF). ☐
- In recent days, many companies prefer to post their vacancies online so that these can be accessed easily and timely by the job-seekers.

- However, this intention may be one type of scam by the fraud people because they offer employment to job-seekers in terms of taking money from them.
- Fraudulent job advertisements can be posted against a reputed company for violating their credibility.

# EXISTING SYSTEM

- The Existing system are predicted using classifiers that have been learned.
- When detecting fraudulent job postings, the following classifiers are used-
  - ✓ KNN Algorithm
  - ✓ Decision Tree
  - ✓ Support Vector Machine



# PROPOSED SYSTEM

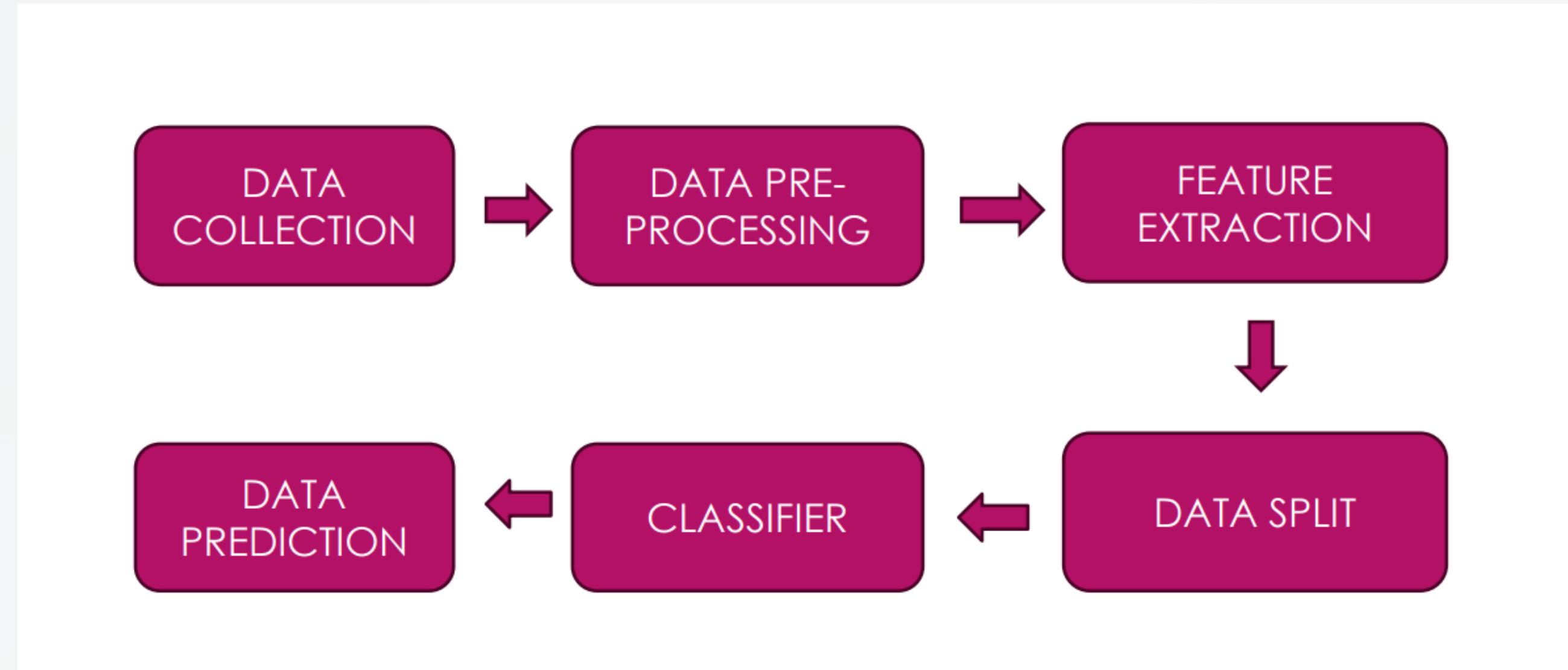
This system's main purpose is to identify whether a job posting is genuine or not.

- Job seekers will be able to focus entirely on legitimate job openings if fake job postings are identified and deleted.
- In this system, we plan to use a Kaggle dataset that contains information on the job, including attributes such as job id, title, location, and department.
- Then there's data preprocessing, which involves removing things like trivial spaces, null entries, stop -words, and so on.
- The data is provided to the classifier for predictions after it has been preprocessed and cleaned to make it prediction ready

When detecting fraudulent job postings, the following classifiers are used-

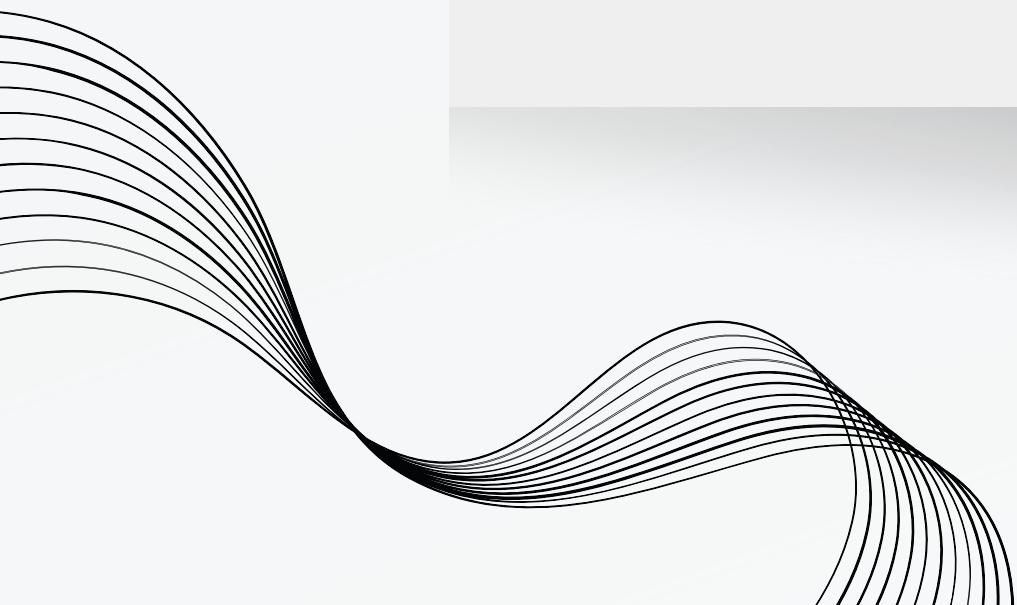
- ✓ Naive Bayes
- ✓ Logistic Regression
- ✓ Random forest Classifier

# ARCHITECTURE



# ALGORITHM

- MULTI-LAYER PERCEPTRON NEUREL NETWORK
- REGION CONVOLUTIONAL NEURAL NETWORK



# **ADVANTAGES OF PROPOSED SYSTEM**

- Success in detection of fake Jobs and posts using various Machine learning approaches.
- Ever changing characteristics and features of fake Jobs in Online networks is posing a challenge in categorization of fake news but proposed system performs with the Better Accuracy of the system.

# REQUIREMENTS

## **Software Requirements**

Front End – Anaconda ID  
Backend – SQL  
Language – Python 3.8

## **Hardware Requirements**

Hard Disk : Greater than 500 GB  
RAM : Greater than 4 GB  
Processor : I3 and Above

# CONCLUSION

Job scam detection has become a great concern all over the world at present. In this paper, we have analyzed the impacts of job scam which can be a very prosperous area in research filed creating a lot of challenges to detect fraudulent job posts. We have experimented with EMSCAD dataset which contains real life fake job posts. In this paper we have experimented both machine learning algorithms (SVM, Naive Bayes, Random Forest and logistic classifier) and deep learning model (Deep Neural Network). This work shows a comparative study on the evaluation of traditional machine learning and deep learning based classifiers. We have found highest classification accuracy for logistic regression among traditional machine learning algorithms and 98 % accuracy.

**THANK YOU**

