**Nagarjuna College Of Engineering and Technology**

CSE-Data Science

**Mini Project (22CDP65)**

On

**FAKE JOB POSTING DETECTING USING NLP AND MACHINE LEARNING**

SYNOPSIS

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**Project Synopsis**

**ABSTRACT**

The rise of online job platforms has led to an increase in fraudulent job postings, which can mislead job seekers and damage the reputation of legitimate organizations. Detecting fake job listings has become a critical task to ensure a safer and more trustworthy job search experience. This research focuses on leveraging Natural Language Processing (NLP) and Machine Learning (ML) techniques to identify and classify fake job postings. We propose a comprehensive system that employs NLP to extract key features from job descriptions, such as linguistic patterns, terminology, and structure, and then uses machine learning algorithms to classify these listings as either legitimate or fraudulent. The system is trained on a large dataset of job listings, where features such as the frequency of certain keywords, text coherence, and historical patterns of fake job characteristics are analyzed. Several ML models, including decision trees, support vector machines, and deep learning approaches, are tested for their effectiveness in detecting fake job postings. The results demonstrate the potential of NLP and ML in accurately identifying fraudulent job listings, thus offering valuable support in enhancing online job platforms' security and trustworthiness. This research contributes to the development of automated tools that can assist in filtering out fake job postings, improving the overall user experience for job seekers.