**Class: IV-I B.TECH(AI&DS) 23-24 SEM-1 Batch No: 06 AI&DS\_Batch-06**

**MINI PROJECT ABSTRACT**

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| **MINI Project Title: "Unmasking Employment Scams”** | | | |
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| **ABSTRACT:**  In the wake of escalating fraudulent job postings, particularly in the digital realm, the project "Unmasking Employment Scams: A Hybrid Approach Using Data Mining and Deep Learning" introduces an advanced predictive model leveraging the XGBoost algorithm. This project tackles the burgeoning issue of job scams, where job seekers are increasingly exposed to the risk of personal and financial information misuse through deceptive online job advertisements. Utilizing the Employment Scam Aegean Dataset (EMSCAD), comprising 18,000 samples, this study incorporates XGBoost, an ensemble learning method known for its robustness and high performance in classification tasks. XGBoost is an ensemble machine learning algorithm , using an optimized gradient boosting framework, to classify job posts into genuine or fraudulent categories.  The XGBoost model in this study demonstrates superior predictive capabilities, achieving approximately 98% accuracy in identifying fraudulent job listings. This approach not only capitalizes on the strengths of traditional data mining techniques but also leverages the scalability and efficiency of XGBoost in handling large datasets with minimal computational overhead. By integrating this model into job listing platforms, the project aims to significantly reduce the prevalence of job scams, thereby safeguarding job seekers from potential exploitation. This research underscores the potential of advanced machine learning techniques like XGBoost in enhancing job market security, contributing to a safer recruitment environment, and exemplifying how modern data science can be applied to real-world problems in human resource management.  In conclusion, the integration of the XGBoost algorithm into the detection of employment scams proves highly effective, offering a robust solution to safeguard job seekers from fraudulent job postings.        **HOD SIGN PROJECT COORDINATOR GUIDE** | | | |