

# Monitoring Online Tests Through Data Visualization

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**Abstract:** Online examinations have gained significant popularity in recent years due to their flexibility and convenience. However, one of the major challenges associated with online exams is the potential for cheating. This research paper aims to explore how data visualization and machine learning techniques can be employed to detect and prevent cheating during online examinations. By analyzing patterns and anomalies in student behavior and performance data, we can develop robust systems to maintain the integrity of online assessments. This paper discusses the various methods, challenges, and potential solutions for detecting and deterring cheating in online exams using data visualization and machine learning algorithms.

**Keywords:** Online examinations, Cheating detection, Data visualization, Machine learning, Academic integrity, Student behavior analysis

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