

## **Time-Based Trends in Data Breach Metrics: Insights from a Longitudinal Analysis**

DJ Smith, Emporia State University, P.O. Box 4039, Emporia, KS, 66801, 620-341-5548,  
dsmith35@emporia.edu

Omar Faruq Osama, Emporia State University, P.O. Box 4039, Emporia, KS, 66801, 620-757-  
3468, oosama@g.emporia.edu

### **ABSTRACT**

In this presentation, we present an in-depth analysis of time-based trends in data breach metrics. Using a dataset spanning multiple years, we examine how transparency, accountability, timeliness, and ethical conduct have evolved over time. Our research reveals significant insights into the dynamics of data breach responses. Additionally, we examine the consequences of the aforementioned trends on prospective cybersecurity tactics and regulatory structures. We also analyze the influence of emerging technologies on the identification, administration and reporting of data breaches.