**Topic:** AI-Driven Predictive Analytics for Security Breaches

**Overview**: The goal of this project is to develop a predictive analytics tool that uses machine learning and statistical models to forecast potential security breaches based on historical data. This tool will help organizations proactively identify risks and take preventive measures to mitigate cybersecurity threats.

**Objectives**:

* **Predict Security Breaches**: Use historical data to predict the likelihood of future security breaches.
* **Enhance Threat Detection**: Leverage machine learning models to improve the detection of suspicious activities and anomalies.
* **Enable Proactive Security Measures**: Allow organizations to take preventive actions based on predictive insights, thus minimizing the impact of potential breaches.

**Technologies:**

* Python
* Pandas
* NumPy
* Scikit-learn
* Matplotlib/Seaborn

**Workflow**:

* Data Collection and Understanding
* Data Preprocessing and Cleaning
* Exploratory Data Analysis (EDA)
* Model Development
* Model Evaluation
* Deployment
* Monitoring and Maintenance