KNTU_IPM Machine learning Quiz

KNTU_IPM Anomaly detection

A company tracks login activity using features such as the number of logins and the duration of each session.

employee's login behavior suddenly spikes compared to their historical pattern.

Use Gaussian-based anomaly detection on the login data to flag unusual behavior.

```
Import libraries as written define "def multivariate_gaussian(X, mu, var):" load data (login_data.csv)
```

- # Separate features and labels
- # Visualize the Login Data
- # def estimate_gaussian(X):
- # def select_threshold(y_val, p_val):
- # Estimate Gaussian Parameters
- # Compute Probabilities
- # Find Best Threshold Using Validation Set
- # Visualize Detected Anomalies