

Evaluating Models for Anomaly Detection in DDoS Attacks

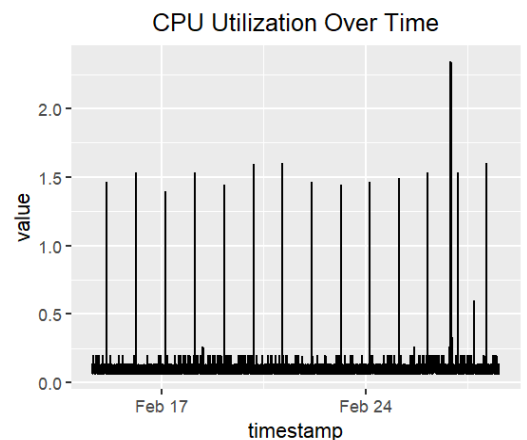
The Predictive Pioneers (group 2): Christine Tsai (leader), Ben Harris, Vance Newsome
DS 4002: Data Science Project Course, 03/18/25

Data Appendix

EC2 CPU Utilization Data: each observation in this dataset represents the percentage of CPU resources used by an Amazon Elastic Compute Cloud (EC2) instance at a given point in time.

Variables:

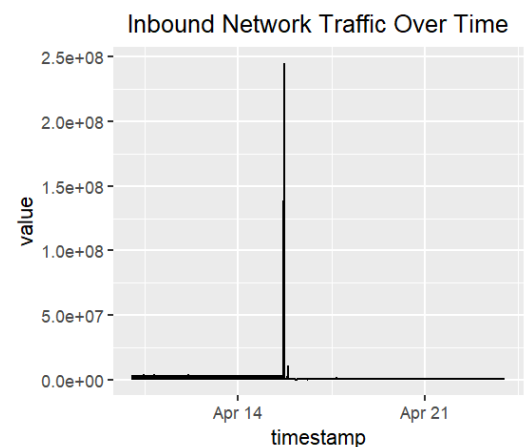
- timestamp: the specific point in time when the CPU utilization was recorded.
 - No missing observations
 - Start: 2014-02-14 14:30:00
 - End: 2014-02-28 14:25:00
 - Interval: 5 minutes
- value: the percentage of CPU resources used by the EC2 instance at the recorded timestamp.
 - No missing observations
 - Minimum: 0.0660
 - 1st Quartile: 0.1320
 - Median: 0.1340
 - Mean: 0.1263
 - 3rd Quartile: 0.1340
 - Maximum: 2.3440



EC2 Network In Data: Each observation in this dataset represents the amount of inbound network traffic, measured in bytes, received by an Amazon Elastic Compute Cloud (EC2) instance at a given point in time.

Variables:

- timestamp: the specific point in time when the inbound network traffic was recorded.
 - No missing observations
 - Start: 2014-04-10 00:04:00
 - End: 2014-04-24 00:09:00
 - Interval: 5 minutes
- value: the total amount of data, in bytes, received by the EC2 instance at the recorded timestamp.
 - No missing observations
 - Minimum: 38517
 - 1st Quartile: 219342
 - Median: 234246
 - Mean: 570810
 - 3rd Quartile: 251775
 - Maximum: 245126000



ELB Request Count Data: Each observation in this dataset represents the number of incoming requests processed by an Elastic Load Balancer (ELB) at a given point in time.

Variables:

- timestamp: the specific point in time when the number of requests was recorded.
 - No missing observations
 - Start: 2014-04-10 00:04:00
 - End: 2014-04-24 00:39:00
 - Interval: 5 minutes
- value: the total number of requests received by the ELB at the recorded timestamp.
 - No missing observations
 - Minimum: 1.00
 - 1st Quartile: 15.00
 - Median: 48.00
 - Mean: 61.84
 - 3rd Quartile: 89.00
 - Maximum: 656.00

