



## Spark Case Study

# Log Analysis for Fraud Detection using Spark



# The Background

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As the wave of digitization takes our world by storm, so does the threats of cyber fraud and malpractices get more sophisticated with each passing day. In order to catch the new-age protean criminal there is an urgent requirement to have cutting-edge tools in order to stay one step ahead of these malevolent entities.



## The Goal of the Case Study

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Deploying Spark for fraud detection, log analysis anomalies





# Apache Spark Deployment in Fraud Detection:

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High speed querying of data with incredible iteration computation

Deploying extreme statistics to calculate min, max and average values

Monitoring response codes, IP addresses that are in violation of the protocol

Pattern recognition, normalization, classification, tagging and filtering.



# Benefits of Deploying Apache Spark

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Processing time reduced by 100x

Spark is extremely resilient

Highly recommended for iterative computing tasks



# The Result

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This methodology gives you very quick turnaround time and also the option for auto scaling

92% of the instances are running on Spot and due to this the Apache Spark helped to save Cloudera costs by up to 73% without the need for any IT overheads.





# Thank You



Email us – [support@intellipaat.com](mailto:support@intellipaat.com)

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