



Crime Analytics

Application Areas

Healthcare Analytics

Deep insight into your healthcare data

Sentiment Analytics

What have people got to say about your product?

Crime Analytics

Support for Crime data analysis

More than 10GB news feeds being processed to generate *Hot spots, Heat maps, Crime prediction and Criminal profiling*

Clickstream

Traffic and e-commerce analysis

Sensor / Machine Data

On the fly and batch analytics for sensor and machine generated data

Geolocations

Location data analysis

Unstructured

Analyse Text, Images, Videos etc

Web and Social Media

Analyse social media, Blogs (Facebook, Twitter, Google+ etc.)

Network Security Analytics

Analyse Static or Streaming netflow Data

Supported Technologies



AMRITA

MEDICAL SOLUTIONS

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We also undertake
Training/Consulting
in BigData Analytics

Technical support

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**Smarter Way to
BIG DATA
Analytics**

**A Better Approach to
MEASURE
&
MANAGE
Your Data Depths**

AMRITA

MEDICAL SOLUTIONS

Amrita Big Data Framework (ABDF) is essentially an all integrated framework for effortless Big data analytics. ABDF is feature rich, providing user community with an easy to use GUI for analysing large data heaps. A few to list are

- Data adapters for diverse domains and data feeds
- Connectors to prominent distributed computing frameworks
- Drag and drop builder for building complex analytics / ETL workflows
- Distributed machine learning algorithms with sample applications
- Pool of customizable data mining algorithms
- Easy to use interface to plugin custom built algorithms
- Pool of preprocessors and process elements for data transformation
- Built in visualization framework
- Protocols and Applications support for Internet of Things
- Cloud based / easy to configure on-premise deployment solution
- Support for building HDFS based Enterprise Data Warehouse

ABDF Machine Learning Libraries for rapid data mining.

ABDF REST APIs for custom application integration.

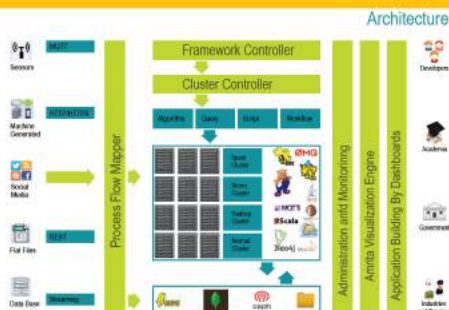
Intelligent framework controller for automated selection among the five execution modes of Linear, Hadoop, Spark, Storm & GPGPU.

Integrated *dynamic dashboard utility* to build custom dashboards.

Cluster controller for supervised and controlled load balancing.

High data security using data encryption and Kerberos.

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Process Flow Mapper (PFM)

Easy to use Graphical User Interface to build end to end analytical solution.



Process Flow Mapper GUI

ABDF Data adapters

- FTP
 - RDBMS
 - NoSQL
 - MQTT
 - ZMQ
 - RSS Feeds
 - Flat Files
 - Social Media
 - HDFS
-and the list is growing

PreProcessors

- Bining
 - Outlier
 - Correlation
 - Normalization
 - Aggregation
 - Sampling
 - Regression
 - Smoothing
-and the list is growing

Process Elements supported by ABDF

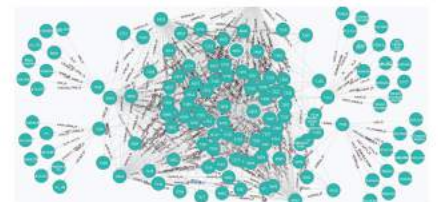
- Expression
 - Filter
 - SQL Queries
 - Sorter
 - Remove Null
 - Join
 - Segregator
 - Aggregator
-and the list is growing

Algorithm support in all five execution modes

Intelligent ABDF Framework Controller automatically decides which execution mode to be chosen.

All integrated under one intelligent framework

- Hadoop Map Reduce
- In Memory
- Linear Execution
- Streaming Algorithms for on the fly analytics
- GPGPU Based Algorithmic Pool



Social Media Analytics

ABDF Supported Algorithms

- K-means
 - ID3
 - Naive Bayes
 - Apriori
 - K-nearest neighbor
 - DBSCAN
 - Random Forest
 - Logistic regression
 - Neural network
 - Support Vector Machines
 - Clique
 - Optics
 - Expectation Maximization
 - Proclus
 - In Memory Algorithms
 - Streaming Algorithms
 - ▶ Very Fast Decision Tree
 - ▶ Stream km++
 - ▶ Birch
 - ▶ Cobweb
 - ▶ Clustream
 - ▶ Den stream
 - Plug-ins for custom built algorithms
-and the list is growing

Pluggable Visualization Engine

- Visualize data using different charts
- Support for different trending javascript visualization libraries
- Support for static and streaming data using node js and message queue
- Chart components integratable to PFM
- Generation of charts using standard input format and configuration parameters

