# RESUME


# MAHINDRA REDDY

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## SUMMARY


Data scientist with 4+ year of experience leveraging Statistical Modeling, Data Processing, Data Mining, Machine Learning and deep learning algorithms to solve challenging business problems on time series , computer vision and Natural language processing .


## HIGHLIGHTS

- To understand the business use cases from clients and convert them into a well defined problem statement and explain it to the development team.
- To identify data sets required to develop predictive models for solving internal and external business problems
- To fill data gap by gathering data , designing annotation portal and conducting data annotation by human annotators.
- To explore data sets and identify data transformation and data quality needs for targeted applications
- To develop algorithms and predictive models to derive insights and business value from data
- To provide leadership and mentorship to other members of the team.
- Identify and implement use cases which might help the organization business development
- To interpret results and produce actionable business insights that lead to measurable business and consumer experience performance improvements
- To Operationalize, publish, and monitor successful models to shape business and data science strategy
- To partner with other departments to solve problems and identify trends and opportunities To define and develop the program for metrics creation, data collection, modeling, and reporting the operational performance
- To work cross-functionally to define problem statements, collect data, build analytical models and make recommendations.
- To routinely communicate metrics, progresses and other key indicators to leadership.
- To lead and support various ad hoc projects, as needed, in support of Organization's Business strategy.

## SKILLS

| | |
|---|---|
| **Domain** | Retail, Telematics, Healthcare |
| **Programming/Scripting** | Python, Java |
| **Tools/IDE** | Pycharm, Pyspyder, Jupyter Notebook, Eclipse |
| **Cloud** | AWS, Azure |
| **Data Science** | Machine Learning, Data Analysis, Artificial intelligence, Predictive modeling, Statistical Modeling, Natural Language Processing, Deep learning, TensorFlow, Pandas, Scikit learn keras, Matplotlib, Data Cleaning, Data Virtualization |
| **Project Methodology** | Agile |
| **Operating Systems** | Windows, Cent OS , Red Hat, Ubuntu |
| **Big Data** | Hadoop, Hive, Spark, Spark Streaming, Yarn, Zookeeper, Apache Kafka, Flume, Sqoop, Pig, MapQuest API, Elastic Search, Hbase |
| **Distribution** | Cloudera, Hortonworks |

## EXPERIENCE

- **Verizon R & D** Jan 2018-Dec 2022

**Hum Telematics**

AI product designed and sold by Verizon R & D. Data is received from HUM Devices at the rate of 40 packets per second for 17 million devices. Project involves implementation of advance analytics and machine learning and deep learning after processing data packets in big data pipeline.

**Technology**

PySpark, Machine Learning, Deep Learning, TensorFlow , keras,Kafka, Elastic search, MapQuest API, Hbase, Cloudera, Kibana, AWS

**Contribution**

- Involved in requirement gathering and architecture design.
- Creating artificial intelligence convolution neural network model to classify images of different objects.
- Building data cleansing pipeline to train a model.
- Developing statistical models for various predictive methods such as forecasting, classification, clustering and regression.
- Involved in parameter tuning process for optimal model hyperparameters.
- Generate actionable insights from data and creating presentations and dashboards to make recommendations for improvement.
- Scripting using python language and Apache Spark algorithms such as forecasting, classification, clustering, association mining, regression, decision tree, correlation.
- Preparing and conducting demonstration of predictive analytics module of BI along with marketing team.

- **Deloitte US India Consulting** Dec 2016-Jan 2018

**Daimler Trucks Asia End to End After Market Supply Chain Solution**

Fuso implemented D2S in May 2015, however there were numerous issues at launch. Issues included inefficient master data management, low forecast accuracy, incorrect safety stock calculation techniques, poor backorder management and low overall visibility & transparency. Project requirements included improving supply chain efficiency, transparency and optimizing stock control.

**Technology**

Neural Networks, Deep learning, Python, Machine learning, Data Analysis, HIVE, Spark, Azure Cloud Platform, Kafka, Sqoop

**Contribution**

- Involved in requirement gathering and the concept design phase of the project.
- Developed end to end data pipeline using Spark and Scala.
- Streaming and processing data through Apache Kafka and Spark.
- Performing analysis for forecasting customer lifetime value, measuring long-term value of campaigns, churn analysis.
- Monetary Analysis, Sentiment Analysis, Navigation Menu Analysis, Net Promoter Score, Spike orders.
- Detection Analysis, Causal Impact Analysis.

- **Wipro Technologies** Dec 2014-Dec 2016

### Enterprise Data Lake

Enabling client businesses across EMEA to securely access data for analytical warehouses and insight-generating purposes provisioned via a trusted and compliant data store.

### Technology

Hortonworks Hadoop ecosystem, Flume, Hive, Hbase, Spark, Scala, Kafka.

### Contribution

- Developed data processing frameworks on big data technologies using Hortonworks Big Data platform.

Created complex ETL code in Hadoop.

- Created CDC and ETL scripts for fulling various Business requirements. This included creating Pig and Hive UDF's
- Created data provisioning layer and scripts to provision data to downstream systems. This included creating HBase Core API code.
- Resolved high priority production issues within SLA's and fixed issues related to code, platform, scheduling anddeployment.
- Performance optimization by detailed analysis of bottlenecks in code and platform.
- Project and data governance including standardization of metadata, processes, and code reviews.

## EDUCATION

| Degree | University | Course | Year | Percentage / CGPA |
|---|---|---|---|---|
| B-Tech (Computer Science and Engineering) | JNTU | Computer Science and Engineering | 2014 | 8.7/ 10.0 |
| Masters in Bigdata Analytics | Trent University | Applied Modelling and Quantitative Methods | 2023-Present | 4/4 |
| 12th | BJC | Mathematics, Physics, Chemistry | 2007 | 97.4% |