SangeethaPriya Viswanathan
Data Analyst- Big Data
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Summary

An extensive experience of around 2 years in developing as well as consulting solutions on Java, Sparql, Big Data, applications spanning across technologies and business domains. A Technology Evangelist on various technologies such as **Chef**, **Big Data (Machine Learning, Semantic Web, Solr, Hadoop).**

Work Experience Highlights

1. Extensive experience in product development in particular clustering based Solutions.
2. Have involved in the team on various new technologies based on **"Big Data"**.

Professional Experience

Currently working as a **Data Analyst** in **Inautix Technology** Chennai (From July 2015 – Present) Responsible for Technology Assessment, Innovation on Big Data technologies.

Education

- Bachelor of Engineering, Electronics and Communication Engineering, 2015 ,India with First Class Distinction

Area	Skill set
Operating System	Rethat Linux, Windows
Devops Tool	Chef
Big Data Technologies	Machine Learning, Semantic Web, Solr, Hadoop
Semantic Web technologies	Sparql ,D2RQ,RDF,Triples, Apache Jena
Languages	Java, Python, Sparql, RDF
Triples Data Store	Stardog(Sparql Endpoint)
IDEs , Frame work ,Tools	Eclipse, Pycharm, Maven, MS Office, Machine Learning Packages
Servers	Apache Tomcat, Nginx

Emulator	Putty, WinSCP, FileZilla

Project Details

Organization: Inautix Technologies

Project #1

Title	Nexen Data
Duration	8 Months
Big Data Team Size	Seven
Operating System	Windows, Linux
Programming language	Java,Sparql

Project Objective

- A virtual place for the NEXEN universe of partners to share data, information or knowledge of and about the financial industry
- Will provide the "models" to make the model execution engines of NEXEN Data work.
- Models such as Ontologies, Taxonomies, Contracts and so forth

Project Description

- Create a Knowledge Graph where all relationships between "objects" are "bitemporal" and "immutable"
- Create NEXEN Data as a "reactive model-driven micro-services platform" that allows third-parties to build (or "plug in") micro-services that run as close to the data as possible
- Create NEXEN Data as a "regulatory compliant data processing platform"
- Create NEXEN Data as an "enterprise data unification" platform
- Create NEXEN Data as a product for other enterprises to use on their own infrastructure
- Create the "NEXEN Knowledge Graph" where for end-users all enterprise data forms one consistent whole, without concepts like "silos", "systems", "databases" or "tables"

Roles and Responsibilities

- Triplication of RDMS data to triples
- Dumb the Data to Stardog Database
- Query the Data using Sparql Queries
- Coding

Project #2

Title	Nexen Chatbot

Duration	3 Months
Team Size	Two
Tools, Language	Python, Machine Learning, Java, Sparql Queries, Rdf
Operating System	Linux, Windows

Project Objective

- Automation of User request
- Handle all password related tickets through a Chatbot.

Project Description

- TSG gets 75k tickets per month, out of these 40% of the tickets are related to password/account reset. In those 13k tickets are to password reset for Active Directory, LDAP and Mainframe environment.
- The challenge is to come up with an intelligent chat bot that can Interact with associates, Decide required action
- Execute required action and update to the user.
- Machine Learning algorithms like Navie Bayes and Support Vector Machine were used for Text Classification

This chat bot is web based solution and it accessible from various NEXEN delivery

Roles and Responsibilities

- Coding (Making Triples using Apache Jena)
- Machine Learning Models Building- Navie Bayes and Support Vector Machine
- Stardog Database Management

Project #3

Title	Machine Learning Platform Setup
Duration	Ongoing Project from Dec 2016
Team Size	Two
Tools, Language	Chef automation tool ,Ruby, Git
Operating System	Linux, Windows

Project Objective

- Automation of installing all the tools in machine learning setup
- Handle all installation in Chef.

Project Description

- Until we get dedicated machine learning servers, to meet client needs on Machine Learning, team decided to pull 1 server each in Hadoop region to provide following tools with requested configuration.

Machine learning Tools: (The list was decided based on request from LOBs and ML team)

- Zeppelin
- R studio
- H2O
- Sparkling water – H2O + spark
- H2O on Hadoop
- Python with M/L libraries
- Anaconda
- Tensor flow (Google)
- Stanbol (Apache)
- Spyder
- Alteryx

Roles and Responsibilities

- Coding in ruby
- Chef Server Management and Handing the servers using chef

Big Data Proof of Concepts Details

Organization: Inautix Technologies

POC #1

Title	Time Series Model OF Forex Data
Duration	Ongoing POC from September 2016
Big Data Team Size	Three
Hadoop Ecosystem	Hive
Operating System	Linux, Windows
Language	Python

Project Description

- The goal is to reduce reputational and operational risk. The task is to predict and

analyze the anomalies from the message volume produced by User.

- Interpretation of time series for Forex data is mainly to determine the long term trend so as to forecast the future or perform some other form of analysis like one of the instances we attempted to accomplish i.e. pair trading identification.
- We aimed at an initial effort to analyze the time series patterns.

Roles and Responsibilities

- Requirement Analysis
- Build a Machine Learning Model(Arima Model)
- Predication of next month Forecast in forex

POC #2

Title	Tick data Benchmarking – Hive, Python
Duration	1 Month
Big Data Team Size	Two
Hadoop Ecosystem	Hadoop , Hive ,
Operating System	Linux, Windows
Language	Python
IDE	Anaconda Jupiter

Project Description

- The goal for the TICK benchmarks is to produce a series of benchmarks that can be used to compare various toolsets (hive, pyspark with hive contact, Python).
- In order to obtain comparable results using the various tools, we need to be sure that the same resources are used for each test.

. **Roles and Responsibilities**

- Order Book Generation Using Python(Pandas)

Place:

Date: Coimbatore

Signature

(SangeethaPriya Viswanathan)