MADHURI GUPTA

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Profile Summary

Experienced Software Developer skilled in Clojure, Java, and Big Data Analytics Technologies. Strong engineering professional with a Master of Technology (M. Tech) focused in Computer Science and Engineering from Malaviya National Institute of Technology (NIT, Jaipur) and a proud contributor of research paper published in IEEE, 2017. Data Science and Machine Learning Enthusiast, passionate about technical innovations and love working in an innovation-driven environment. Highly flexible as a programmer. An ardent self-learner.

Experience

Sr. Member Technical Staff, Oracle Integrated Cloud Applications & Platform Services   Dec 2018 – Present

Key Responsibilities:

- Automate the testing framework for REST APIs Area in ADW (Autonomous Data Warehouse), Oracle Cloud based database.
- Write Perl scripts to validate different functionalities of ADW.
- Provide root cause analysis and triage the development issues with various features of ADW during weekly signoffs.

Sr. Software Engineer, FORMCEPT Technologies and Solution Private Limited   Apr 2018 – Nov 2018

- Building Micro services in Clojure
- Understanding the customer data, requirements and providing recommendation in building new insights and product features.
- Guiding and mentoring the developers continuously in delivering the right application to the customers Using FORMCEPT products.

Software Engineer, FORMCEPT Technologies and Solution Private Limited   Nov 2016 – Mar 2018

- Worked upon adding new features to Formcept's Data analysis product, and enhanced certain existing features.
- Developed Cognitive Applications for the customers based on their requirements.
- Successfully implemented PoCs in Agriculture, Media, Healthcare and Retail Domains.

Assistant Professor, Poornima Institute of Engineering & Technology, Jaipur   Dec 2011- June 2014

- **Subjects Taught:** Data structures & Algorithm, Operating System, Computer Networks, Artificial Intelligence, Software Engineering.
- Also worked as Faculty Replacement and Activities Club Coordinator.
- During the period, I have received performance appraisals for giving best results several times.

Industrial Projects

"Oracle R Advance Analytics with Hadoop"
- Involved in development, automation & quality assurance of Oracle R Advance Analytics with Hadoop product.
- Developed & Managed the R scripts for deployment of product and analysis of the data stored in Oracle Database and HDFS using the various machine learning APIs.

"Oracle Machine Learning (OML) Micro services"
- Involved in automation & quality assurance of OML Micro services product. OML Micro services are a set of RESTful services that expose the building, storage and scoring functionality for different machine learning models.
- Security testing of OML Micro services using REST Fuzz Tool.
- Written the Jenkins Jobs to automate the entire flow of OML Micro services usage.

"Analysis of Telecom Survey Data"
- Worked through all the stages of Data Analytics like Data Pre-processing, Data Cleansing (ETL), and Data Storage.
- Data Modelling to convert unstructured data into structured form.
- Built REST APIs in Clojure and applied machine learning to get insights of the data.

"Analysis of Retail Survey Data"
- Built REST APIs in Clojure to analyze common shops and blocks (overlap analysis).
- Outlier analysis based on multiple metrics.
- Built REST APIs in Clojure to generate Modern Trade Analysis Summary.

"Data Modelling and Integration of Automobile data"
- Preprocessing of data and built data models to convert unstructured data into structured from.
- Performed data integration using SQL commands.

"IT Logs Analysis"
- Set up a pipeline using ELK (Elastic Search, Logstash, Kibana) Stack and Filebeat for log analysis.
- Used Grok Processor for parsing of highly unstructured logs.
- Analyzed and Visualized the Linux authorization logs, apache logs, nginx logs successfully.

Technical Skills

Languages/Courses: Clojure, Java, Data Structures & Algorithms, Data Analytics, Machine Learning

Big Data Technologies: Apache Hadoop, Apache HBase, Elastic Search, Apache Kafka, Map Reduce

Operating Systems: Ubuntu-16.04 LTS, Windows (XP/7/10), Oracle Linux

Other Tools/Software: Maven, Git, LightTable, Eclipse IDE, Vim, Docker, Jenkins, Logstash

Educational Qualifications

Master of Technology, Computer Science & Engineering   CGPA: 7.1/10 (71%)
Malaviya National Institute of Technology, Jaipur, Rajasthan   Year of Completion: 2016

Bachelor of Technology (Hons.) Computer Engineering   Percentage: 76%
Apex Institute of Engineering & Technology, Jaipur, Rajasthan   Year of Completion: 2011

Academic Projects

M Tech. Dissertation on "Blocking Based Entity Resolution in large Bibliographic data using MapReduce"

- Identified duplicate reference/citation entities in a large DBLP dataset. Process contain three phases: Blocking, Pairwise similarity computation and Classification using machine learning.

- Algorithms used : Traditional and Sorted Neighborhood Blocking, Levenshtein (Edit Distance) for similarity computation and Distance Based Classification Algorithm

- MapReduce Programming Framework and Apache Hadoop-2.7.1 Processing Engine were used.

M Tech. Seminar on "Comparative Performance Analysis of Spark and Hadoop-MapReduce"

- Comparison of two frameworks for Big Data analytics along with providing the performance analysis of a few standard machine learning algorithms like Naive Bayes and Random Forest.

- The experimental results may indicate that Spark is a very strong contender and a complement to Map-Reduce.

Awards & Recognition

Recipient of **Delivery Excellence Award – 2017** from FORMCEPT Technologies and Solution Private Limited.

Publication

"Efficient entity resolution using multiple blocking keys for bibliographic dataset", Intelligent Communication and Computational Techniques (ICCT), 2017 International Conference , IEEE, 2017

Extra-Curricular Activities

- Participated in Two Days India's Annual Clojure Conference **IN/Clojure** (https://inclojure.org/).

- Participated in Five Days Faculty Development Programme on **"Parallel Computing"** conducted by MNIT Electronics and ICT Academy Jaipur sponsored by Deity (MCIT), Government of India.

- Attended Two-week ISTE WORKSHOP on **"Database Management Systems"** conducted by IIT Bombay sponsored by National Mission on Education through ICT (MHRD).

- Attended Three Days National Workshop on **"Biometrics and Privacy Protection"** conducted by MNIT Jaipur Sponsored by IUPRAI(Affiliated to International Association of Pattern Recognition) and TEQIP, MHRD Govt. of India.

- Participated in Four Days International Conference on **"Big Data Analytics (BDA-2014)"** held at IITD (Indian Institute of Technology), New Delhi.

- Participated in Three days National Workshop on **"Data Analytics"** Organized by Department of Computer Science and Engineering, MNIT, Jaipur.

- Certified by Wipro on Successful Completion of **"Mission10X Aarambh-a blended learning certification program on Effective Teaching and Learning methods".**

- Certified By Bodacious IT Hub Pvt. Ltd. on Successful Completion of B Tech. Summer Training for Core Java Course.

- **"Rajya Puraskar"** recipient by The Bharat Scouts & Guides for fulfilling my duties as a Guide.

- Participated in many State level and District level Table Tennis Tournaments.