

# Rapeti Bhargav

Total Exp: 9yrs

## Data Scientist

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## PROFILE SUMMARY

- **Self-motivated and driven Data Scientist** with a total experience of **9 years** and a **relevant experience of 4.5 years in Data Science**.
- In depth knowledge and experience in statistics and applied machine learning methodologies
- Experience in creating **Artificial Intelligence** applications with **Machine Learning, Deep Learning with Python. Deep Learning techniques includes ANN, CNN, RNN and Advanced RNN with LSTM**.
- Strong skills in Machine Learning especially techniques such as **Data Wrangling, Linear/Logistic Regression, Bagging, Bayesian Optimization, Neural Networks, Ensemble techniques and Hyperparameter optimization techniques**.
- Skilled in libraries such as **Tensorflow , Keras, Sklearn, Numpy, Pandas, Matplotlib, Tableau for Data Visualization**
- **Document Classification, Text Classification, Sentiment Analysis using NLP** concept and Sci-kit Learn Library.
- Rich experience in all phases of **the software development life-cycle such as agile process** (requirements, design, development, testing, release, support), utilizing multiple development methodologies, including **Design Patterns and Structured Programming**
- Experience with **NoSQL databases such as MongoDB, DynamoDB and HBase**.
- Worked Independently for **Deployment of Models using Dockers and Kubernetes In AWS cloud and Google cloud**
- Worked with **Devops** teams for creating **CI/CD Pipelines using Jenkins**.
- Expertise in manipulating and analyzing complex, high-volume, high-dimensionality data from varying data sources and big data sources
- **Additional Skills on Integration tools like Oracle SOA Suite and Oracle Service Bus** (both 11g and 12c) which I worked during the initial phase of my career. (From 2010 to 2014)

## SKILL SET

Operating Systems	Windows 10, Linux
Data Bases	MongoDB, DynamoDB, Cassandra, HBase
Data Science	Machine Learning, Deep Learning, TensorFlow, Keras, Computer Vision
Tools and IDE	Spyder, Jupyter , SOAP UI, Version control tools like Tortoise SVN, GIT
Languages	Python 3.6, JAVA/J2EE
Server	Flask, Django

## DOMAIN KNOWLEGDE

- Retail

## WORK EXPERIENCE

- Worked as a **Consultant** in Data Science for **Deloitte USI**. from February 2018 to February 2020.
- Worked as a **Senior Software Engineer** in **Zensar Technologies Pvt. Ltd.** from December 2010 to February 2018.

## PROFESSIONAL EXPERIENCE

**Client Name / Company /Location** –Electronic Arts/ Deloitte USI / India

**Duration:** 2 Years from February 2018 to February 2020

**Technologies** – **Predictive Data Analytics, Deep Learning, Apache Spark, Solr, Hive**

**Client Profile:**

Electronic Arts Inc. is a leading global interactive entertainment software company. EA delivers games, content and online services for Internet-connected consoles, personal computers, mobile phones and tablets. Its based out in Redwood City, CA.

**About the Project:**

Design and develop algorithms and models in search relevance to improve query understanding and search ranking.

**Contribution / Highlights**

- Performed EDA on the Analytical Data Set. We get HDF5 files as source.
- Model Ready Data Set Creation with Feature Engineering: Transforms, Interactions, **Categorical Encoding**
- Applying **deep learning techniques** like **LSTM** to model sequential data.
- Building and training the model using estimator API in **TensorFlow-Keras**
- Create an **ensemble** of above models to get better accuracy.
- Major contributor to entity search project which provide more precise search results.
- Scale entity search data pipeline leveraging Spark, decreasing running time from twenty hours to one hour.
- Leverage **distributed systems like Spark** to process large amounts of data
- Design and develop classification models to predict query category
- Developed algorithm to clustering and summarize search results into smaller groups, which provide easier navigation
- Classification, Regression, Forecasting, Frequent Item sets, Simulation and Optimization
- Monte Carlo Simulation and Optimization.
- API Creation and Testing

- Tools/Technologies: Anaconda, TensorFlow (tf.keras 2.0), Jupyter Notebooks, Django for API deployment, SOAP UI, GIT for Version control.

**Project / Client Name / Location** – Internal POCs / Zenlabs / India

**Duration:** 2.5 years from September 2015 to January 2018

**Technologies** – Predictive Data Analytics, Deep Learning , Transfer Learning

**Client Profile:**

Zenlabs is an innovation Business Unit at Zensar Technologies, where I and my team have focused on exploring future disruptive technologies and building pre-emptive solutions for Zensar and its customers.

The Zenlabs team consists of Zenlabs Research and focussed on new Technology Initiatives and Innovation programs at Zensar.

### **Contribution / Highlights**

As a team member I was actively involved in the below POCs at Zenlabs:

- Twitter Stream

Used Twitter API and **sentiment analysis** algorithms to detect and react to the negative tweets ASAP.

Implemented sentiment analysis of tweets using Python and the natural language toolkit NLTK

- Image Analytics

Object Detection – Used TensorFlow's pre-trained **Object Detection Model (Faster R-CNN Inception Resnet)** for out-of-the-box inference.

- Dominant Colour Detection

Developed an algorithm which outputs the Dominant Colours of an Image using KMeans and a colour difference metric (Delta E CIE 2000).

- Automated Campaign Finder

Developed a methodology to automate a slow and unscalable process of finding Social Media Campaigns run by brands. This job was done previously by a team of 5 for 1200 social media profiles.

- Promoted Post Detection

Built a Random Forest model with a 96% accuracy (F1 score of 0.92) which predicts if a Facebook Post was promoted or organic using the Interactions Data (Likes, Comments, Shares) of a post.

- Demand sensing

Interesting area where we are working on a multi-disciplinary approach (image, Text, data) and combining them with machine learning techniques for fashion making and buying.

**Project / Client Name / Location** – Ratings Management System/ National Grid / United Kingdom, Winnersh

**Duration:** 20 Months from September 2013 to July 2015

**Technologies** – Oracle SOA 12C (BPEL, OSB, Business Rules, Mediator).

**Client Profile:**

The National Grid is the high-voltage electric power transmission network in the UK, connecting power stations and major substations and ensuring that electricity generated anywhere in England, Scotland and Wales can be used to satisfy demand elsewhere.

**About the Project:**

RMS is an application which used the SOA framework. The objective is to provide a platform to allow National Grid to integrate various business and system components, in a manageable manner, capable of meeting future business needs. RMS system which will receive and transfer Thermal Ratings, Short Circuit Ratings and so all these will become the SOA services that will be consumed by other systems like EBS (Energy Balancing System), OLTA, and SAM.

**Role:** Senior Software Engineer – Onsite Coordinator

**Contribution / Highlights:**

As a team member I was actively involved in the below phases of project:

- Preparation of High Level & Low-Level Design documents.
- Analysis of the specifications provided by the clients.
- Involved primarily in the development, code clean up and enhancement activities.
- Worked extensively on File, FTP, Database adapters.
- Worked extensively on XSD, XSLT and XQuery.
- Worked on configuration plans in BPEL and customization files in OSB as part of development.

Tools/Technologies: Oracle JDeveloper 12C, Oracle SOA Suite 12C, Oracle Service Bus 12C, SOAP UI, GIT, Maven

**Project / Client Name / Location** – BeachBody / US, Santa Monica- Upgrade

**Duration:** 15 Months from April 2012 to July 2013

**Technologies** – Oracle SOA 11g (BPEL, OSB, Business Rules, Mediator).

**Client Profile:**

BeachBody LLC is an American multinational corporation that uses direct response infomercials and multi-level marketing to sell fitness, weight loss, and muscle building home-exercise DVDs. The Santa Monica, California-based company is the creator of the nation's most popular fitness and weight loss solutions.

**About the Project:**

Beachbody is working to achieve tokenization of all payment cards as part of a broader project to become PCI compliant. There are various external systems that transact payment card information with Beachbody. The end goal is to have all systems, both internal and external) transact token values in place of payment cards.

**Role:** Software Engineer

**Contribution / Highlights:**

As a team member I was actively involved in the below phases of project:

- Analysis of the specifications provided by the clients.
- Involved primarily in the development, code clean up and enhancement activities.

- Worked extensively on File, FTP, Database adapters.
- Worked extensively on XSD, XSLT and XQuery.
- Worked on configuration plans in BPEL and customization files in OSB as part of development.
- Followed best practices in developing SOA services.
- Developed Exception Handling framework which can be used across the project.
- Developed many integration touch points involving the disparate systems.

Tools/Technologies: Oracle JDeveloper, Eclipse, Oracle SOA Suite 11g, Oracle Service Bus 11g, Weblogic 10.3.5, SOAP UI, GIT, Jenkins

**Project / Client Name / Location** – Project 42 / Laura Ashley/ UK

**Duration:** 12 Months from February 2011 to March 2012

**Technologies** – Oracle SOA 11g (BPEL, OSB, Business Rules, Mediator).

**Client Profile:**

Laura Ashley is famous for its fancy floral print fashions, Laura Ashley Holdings has turned to furniture, home accessories, and decor (about 78% of sales) to fill the till. Of the company's some 230 UK shops, less than half carry its traditional product line of women's and children's clothing. The company has repositioned itself as a lifestyle brand that is largely home furnishings, as it has shuttered apparel and accessories stores.

**About Project:**

Laura Ashley had obsolete systems for which support was difficult to find. This project brings the entire business onto SOA architecture and we have developed the workflows depending on the business rules entirely using Oracle SOA Suite 11g, OSB and with Oracle Webcenter Portal 11.1.1.6 as frontend UI. We have used MS SQL Server, DB2, Oracle 11g as endpoint databases.

**Role:** Software Engineer

**Contribution / Highlights:**

As a team member I was actively involved in the below phases of project:

- Preparation of High Level & Low-Level Design documents.
- Involved primarily in the development of the BPEL Process.
- Used OSB for the data transformation, routing and interaction with other end systems (like database, JMS and MQ).
- Worked extensively on File, Database and Email Adapters.

- Worked extensively on canonical schemas, XSD and XSLT.
- Developed Exception Handling framework.
- Developed custom Xpath functions and custom Xpath templates in SOA as well as in OSB.
- Tools/Technologies: Oracle JDeveloper, Eclipse, Oracle SOA Suite 11g, Oracle Service Bus 11g, Weblogic 10.3.5, SOAP UI, Tortoise SVN.

### PERSONAL ACCOMPLISHMENTS

	Degree/Certification/Publication	Year of Passing – (If applicable)
Academic Qualification	Bachelor of Engineering (EEE) Vasavi College Of Engineering, 2010	2010
Awards	1. Received best academic project award for year 2010 for “Automatic Irrigation System” and received 10,000rs cash as prize money.  2. Client Centricity Award for Q3 FY 2014-15 for BeachBody LLC client in Zensar Technologies.  3. Applause Award in Deloitte USI for Electronic Arts Client.	2010  2014  2019
Certifications	Cleared Oracle SOA Suite 11g Essentials (1Z1-478) exam.  Cleared Oracle SOA Suite 12c Essentials (1Z0-434) exam.	March,2013  December,2014
Rank	EAMCET Rank: 5614	2006

### Personal Profile:

Name : RAPETI BHARGAV  
 Date Of Birth : 27-04-1989  
 Marital Status : Single  
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 Gandhamguda Village, Golconda PO, Hyderabad-500008  
 A.P, INDIA.

**Date: 1<sup>st</sup> June 2020**

Place: Hyderabad (RAPETI BHARGAV)