

Birla Institute of Technology & Science, Pilani
Work-Integrated Learning Programmes Division
First Semester 2018-2019
BITS ZG628T : Dissertation Outline

ID No. : 2016HT13407

NAME OF THE STUDENT : Sivakumar Mahalingam

EMAIL ADDRESS : sivasai2006@gmail.com

STUDENT'S EMPLOYING ORGANIZATION & LOCATION : Cognizant Technology Solutions, Chennai

SUPERVISOR'S NAME : Suman Swami Das Chirala

SUPERVISOR'S EMPLOYING ORGANIZATION & LOCATION : Cognizant Technology Solutions, Chennai

SUPERVISOR'S EMAIL ADDRESS : sumanswamidas.chirala@cognizant.com

DISSERTATION TITLE : Organizational Behavior Analysis using Game Theory

Organizational Behavior Analysis using Game Theory

BITS ZG628T: Dissertation

by

Sivakumar Mahalingam

2016HT13407

Dissertation work carried out at

Cognizant Technology Solutions, Chennai



**BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE
PILANI (RAJASTHAN)**

November 2018

Broad Academic Area of Work: Data Mining

Background

The relationship between an employer and its employees is not completely researched and understood. By studying the working nature and the behavioral pattern of each side will help to improve the rewards and ease the functioning. The insights which are available currently are not enough to find the attributes that make the employee more engaged, reduce the employee attrition and improve the work place dynamics.

Objectives

- i. To provide analysis of what makes employer/employee to enhance and sustain.
- ii. To provide more enriched insights into attributes for measuring connection between employer and employee.

Scope of Work

The data will be collected using a survey which will be filled by employees and merged with the employee data already residing with the employer. Data collected will be cleansed and processed using big data tools (Hadoop/Spark). The processed data will be used for data mining using data mining algorithm and analyzed using game theory. The visualization of game will be carried using suitable data visualization tool which will give dataset of employees using which reports can be created in future based on need. This data mining application widely covers the areas of data mining, game theory and data visualization.

Plan of Work

S.No.	Description of Work	Start Date	End Date
1	System Study <ul style="list-style-type: none">Identifying the areas involvedSplitting the functionalities into modules	30-07-2018	05-08-2018
2	Analysis and Design <ul style="list-style-type: none">Identify and design the steps in data collection and validationPrepare the steps involved in each module	06-08-2018	19-08-2018
3	Development <ul style="list-style-type: none">Survey creationCleansing and Processing the data collectedCreate a Mining algorithmCreating a report using visualization tool	20-08-2018	23-09-2018
4	System Integration <ul style="list-style-type: none">Integrate the modules as per the designIntegrate the mined information with report to create a visualization	24-09-2018	28-09-2018
5	Testing the application <ul style="list-style-type: none">Test the developed projectFix it if there any error exists or require any improvement	29-09-2018	07-10-2018

6	Documentation <ul style="list-style-type: none"> • Document the application • Modify the document after reviewing with Supervisor and Mentor 	08-10-2018	15-10-2018
----------	---	------------	------------

Literature References

BOOK

Jiawei Han, Micheline Kamber and Jian Pei. Data Mining: Concepts and Techniques. Waltham: Morgan Kaufmann Publishers, 2012

Martin J. Osborne. An Introduction to Game Theory. Oxford: Oxford University Press, 2003

SCHOLARLY JOURNAL ARTICLES

Rita Yadav, Sarla Pareek, Santosh Singh. "Game Theory in Organizational Psychology." International Journal of Advances in Science Engineering and Technology Special Issue-1 (2015): 116-120

DISSERTATION AND THESES

Edward William Rogers. The Relationship Between Employee Perceptions of the Employment Game and Their Perceptions of Cooperative Knowledge Behavior in High Tech Firms[Thesis]. USA: Cornell University ILR School; 2000

Barnaby D Pitt. Applications of Data Mining Techniques to Electric Load Profiling [Thesis]. UK: University of Manchester Institute of Science and Technology; 2000

BIRLA INSTITUTE OF TECHNOLOGY & SCIENCE, PILANI
WORK-INTEGRATED LEARNING PROGRAMMES DIVISION
First Semester 2018-2019

BITS ZG628T: Dissertation EC-1: Dissertation Outline Evaluation Sheet

ID No. : 2016HT13407

NAME OF THE STUDENT : Sivakumar Mahalingam

EMAIL ADDRESS : sivasai2006@gmail.com

STUDENT'S EMPLOYING ORGANIZATION & LOCATION : Cognizant Technology Solutions, Chennai

SUPERVISOR'S NAME : Suman Swami Das Chirala


SUPERVISOR'S EMPLOYING ORGANIZATION & LOCATION : Cognizant Technology Solutions, Chennai

PROPOSED DISSERTATION TITLE: Organizational Behavior Analysis using Game Theory

DISSERTATION OUTLINE EVALUATION

(Please put a tick (✓) mark in the appropriate box)

EC No.	Component	Excellent	Good	Fair	Poor
1.	Dissertation Outline	✓			

	Supervisor	Additional Examiner
Name	Suman Swami Das Chirala	Pushpendra Rajotya
Qualification	Master of Business Administration	Master of Technology
Designation	Senior Associate	Associate
Employing Orgn and Location	Cognizant Technology Solutions, Chennai	Cognizant Technology Solutions, Chennai
Phone No. (with STD Code)	(+91) 9176531411	(+91) 8939126489
Email Address	sumanswamidass.chirala@cognizant.com	pushpendra.rajotya@cognizant.com
Signature		
Date	30-Nov-2018	30-Nov-2018

Remarks

The holistic approach and methodology will enable organization to understand the behavior of employee. This facilitates in taking the proactive initiatives by the organization to enhance the professional career of employees thus bringing in work-life balance and satisfied working environment. By bringing in such best practices, organizations can embark on sustained growth and stability.

M. Sivakumar

Signature of Student

Ch. Suman Swamidass

Signature of Supervisor

Pushpendra

Signature of Additional Examiner

Name SIVAKUMAR MAHALINGAM Name CH. SUMAN SWAMIDASS

Name Pushpendra Rajotya