



Sri Lanka Institute of Information Technology

PROJECT REGISTRATION FORM

(This form should be completed and submitted on or before 3.00 PM, Friday 3rd March, 2017)

The purpose of this form is to allow final year students of the B.Sc. (Hon) degree program to enlist in the final year project group. Enlisting in a project entails specifying the project title and the details of four members in the group, the internal supervisor (compulsory), external supervisor (may be from the industry) and indicating a brief description of the project. The description of the project entered on this form will not be considered as the formal project proposal. It should however indicate the scope of the project and provide the main potential outcome.

PROJECT TITLE	Smart Resume - Business Intelligence Tool for CV Selection
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RESEARCH GROUP	Data Communication
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PROJECT NUMBER	(will be assigned by the lecture in charge)
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PROJECT GROUP MEMBER DETAILS: (Please start with group leader's details)

	STUDENT NAME	STUDENT NO.	CONTACT NO.	EMAIL ADDRESS
1	S.P. Senarath (GROUP LEADER)	IT15099778	0716961901	Shimirasp93@gmail.com
2	Madhushika K.A	IT15097798	0711733876	ashanikulasinghe@gmail.com
3	Yureshani H.B.D	IT15040404	0711733599	d.yureshani93@gmail.com
4	Y.I. Kodithuwakku	IT14115776	0775136156	yeshikareshani@gmail.com

SUPERVISOR

Mr.Lakmal Rupasinghe		
Name	Signature	Date

CO-SUPERVISOR (will be assigned by the Supervisor, if necessary)

Name	Signature	Date

EXTERNAL SUPERVISOR (if any, may be from the industry)

Name	Affiliation	Contact Address	Contact Numbers	Signature/Date

ACCEPTANCE BY CDAP MEMBER

Name	Signature	Date

PROJECT DETAILS

Brief Description of your Research Problem:

IT industry is increasing day by day. When hiring new employees, a company will have to spend much time, effort and cost on finding suitable candidates among thousands of the educated and qualified ones who applied to the same position. As of the recruiting process using in the industry nowadays, companies have to spend a huge cost and time on selecting the perfect ones for the vacant position.

1. Advertise the vacancy
2. Call Curriculum Vitae of the interested candidates.
3. Short listing the applied candidate list by referring their Curriculum Vitae.
4. Interview the shortlisted candidates and recruit the most suitable ones for the position.

But practically, it takes a lot of time and effort for a human to judge an employee's skill and talent just by reading their Curriculum Vitae. Normally, a CV should contain 2 to 3 pages and all the relevant qualifications should be listed there. Because, according to normal policy, the time dedicated to reading one CV is 6 to 7 seconds. The reader should be able to grab the relevant information within that time period.

There may be well qualified, talented candidates, who have a large skill set and a CV extended from 7 to 8 pages since it has to hold each and every qualification they achieved. Sometimes, the required qualifications for the specific position they applied, would be included in the last pages of the CV. In this kind of scenario, the reader would miss the important skills or points because they cannot waste much time on one CV. It is much time consuming for a human reader to read one CV end to end. And also, the most qualified candidates would not be called to the interview just because their CV is too long or not well formatted. It is a huge disadvantage not only to the candidate but also to the company, since the company may lose the best employee to their vacancy.

On the other hand, there may be hundreds of applicants for a vacancy of a large IT industry. In such scenario, it is very hard and time consuming to download each and every CV and read them one by one in order to shortlist in human hands.

Description of the Solution:

There is no any similar tool to satisfy the exact issue, but there are some similar commercially available BI tools but below are the drawbacks.

- I. They are far too expensive, which are being developed by big vendors and often target the big clients.
- II. Small and medium scale companies cannot afford a big cost or a time to find the suitable candidates because many of the employees have to engage in multi tasks inside the company.

Considering all the above facts, we can come to a point that there is a real need of cost effective Business Intelligent (BI) tools that can cater the need of recruiting the best employees to a company. Therefore, the purpose of this research is to address such mentioned issues.

Main expected outcomes of the project:

Smart Resume BI tool to select the most suitable CVs applied for a job vacancy

WORKLOAD ALLOCATION (Please provide a brief description about the workload allocation)

MEMBER 1

Senarath S.P.

An Internet bot will be implemented to do the following tasks.

- Download the CVs in the email automatically

- To read the downloaded emails
- Classify the data in to relevant columns
- Save the classified data in CSV format

To implement the internet bot Neural Networks will be used over NLP (Natural Language Processing).

MEMBER 2

Madhushika K.A

- Identify the Attributes with the use of Relevant data
- Extract the Relevant Data From CSV
- Cleaning Unorganized, Redundant Data (Data Cleansing)
- Transform Extracted and Cleaned Data into Different Format
- Creating Dataware house using MySQL
- Load (Map) Cleaned and Transformed Data Into Dataware house
- Data quality management
- Documenting

Testing

MEMBER 3

Yureshani H. B. D.

- Hypothesis Testing
- Data Sampling
- Building Algorithm for Classification
- Documenting
- Testing

MEMBER 4

Y.I Kodithuwakku

- Evaluate the predicted model if it is the optimal or feasible result
- Documenting
- Testing
- Monitor the accuracy of the prediction models

- Documenting
- Testing

DECLARATION

"We declare that the project would involve material prepared by the Group members and that it would not fully or partially incorporate any material prepared by other persons for a fee or free of charge or that it would include material previously submitted by a candidate for a Degree or Diploma in any other University or Institute of Higher Learning and that, to the best of our knowledge and belief, it would not incorporate any material previously published or written by another person in relation to another project except with prior written approval from the supervisor and/or the coordinator of such project and that such unauthorized reproductions will constitute offences punishable under the SLIIT Regulations.

We are aware, that if we are found guilty for the above mentioned offences or any project related plagiarism, the SLIIT has right to suspend the project at any time and or to suspend us from the examination and or from the Institution for minimum period of one year".

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