



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΠΕΛΟΠΟΝΝΗΣΟΥ

ERASMUS



Enhancing Quality Assurance in South Asia

CERTIFICATE

This is to certify that

S. N. DESHMUKH

has attended the Kick off Meeting and 1st Study Visit of the Programme

EQASA – ENHANCING QUALITY ASSURANCE IS SOUTH ASIA

Project 574078-EPP-1-2016-1-EL-EPPKA2-CBHE-JP

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USC Programa de Excelencia Investigadora PEIN : INDIA

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Date of arrival
26th May 2014

Hosting institution
CITIUS

Date of departure
20th June 2014

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Type of scholarship

Visiting researcher in the Computer Sciences Department (CITIUS) within the Research Excellence Program University of Santiago de Compostela (USC) - India.

Mention duration in weeks: 4 weeks

Signature upon arrival

Name and signature of the grantholder

Signature upon departure

Name and signature of the grantholder

Name and signature of Faculty Supervisor
Name and signature of the Institutional Coordinator, International Office
Fdo.: Enrique López Veloso
Name and signature of the Institutional Coordinator, International Office

Date: 27/05/2014

Date: 18/06/2014



RESEARCH EXCELLENCE PROGRAMME USC-INDIA (PEIN)
REPORT

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Programme Information:

Programme Research Excellence Program USC- India (PEIN)
Mobility Period 1 Month (25 /05 /2014 to /22 /06/2014)

Report:

My visit to a country of a great history and a culture started on 25th May, 2014 for a short research stay under PEIN program, started at University of Santiago de Compostela, under Campus of Excellence Project – Campus Life. This program aims in Interaction between researchers from two different countries on the current demands, Internationalization and motivates for the research collaborations.

My stay was proposed at University of Santiago de Compostela and Prof. David Losada as a Coordinator. I reached the destination on 26th evening and started work from very next day i.e. 27th May, 2014. As Prof. David belongs to CiTiUS (Centro Singular de Investigación en Tecnoloxías da Información), I was allotted the space in research lab at CiTiUS. Further report briefs the extracts of the work and discussions that was carried out in my stay at USC.

In the first meeting, I briefed Prof David about three research activities that I am currently carrying out, namely Detection of Substitution in Text, De-duplication algorithm for Numerals and Intension mining of Friend Request in Facebook account. Prof David works in the area of Opinion Mining. In his publications, he used Blog Data for Opinion Mining. As an initial activity, he proposed me to have a look at current and past TREC conferences. Especially to study various datasets and algorithms related to various tracks of TREC (Text REtrieval Conference). TREC is a well-known conference in text mining area and it is co-sponsored by the National Institute of Standards and Technology (NIST) and U.S. Department of Defense, was started in 1992 as part of the TIPSTER Text program. He also suggested me to check the possibility of benchmarking my Facebook dataset and proposing a problem based on it in the conferences. The data that I extracted from Facebook has Indian contexts.

I started the study, focusing these two issues. The study revealed that TREC 2014 has eight different tracks. Out of these eight tracks two tracks namely Contextual suggestion Track and Web track were of my interest. Hence I concentrated on these two tracks and studied the data sets and the algorithms which are available as proceedings of earlier conferences and also the problem statements given by TREC for year 2014. Task in Contextual Suggestion Track was to formulate the recommendations (and report first 50) regarding places of interest and activities based on the user's location, personal preferences, past history, and environmental factors such as weather and time. An adhoc task in Web Track of TREC investigates the performance of systems that searches a static set of documents using previously-unseen topics. It uses ClueWeb12 dataset for generation of result.

Once I finished this, I started exploring the Facebook dataset and wrote a code to extract the details available on my Facebook account. Facebook allows getting the data programmatically using different keys which can be taken from developer's page of Facebook. One can use Graph API or restFB API to get this data. Aim in getting this data was to check the feasibility of the data that can be extracted using a normal Facebook account and its use to detect the intension of a Friend Request on Facebook, whether the request is reliable or not reliable. Intension mining literature was also referred for this purpose.

Based on this work, a meeting with Prof David was held to discuss these issues and further directions. FB schema and extractable data from FB was reviewed in view of detection of Intension of new Friend request. But if algorithm for detection of Intension is based on the details of communication, then there is need of standard dataset which will help mature the rule of detection of Intension, But it is difficult to get such dataset. Because getting a non-reliable communication is a problem.

Another way to solve this issue is to apply the link analysis theory on the data. Prof David suggested me to study link analysis theory and also browse current and past WWW Conference and SIGIR conference for getting the publication in this regards. He gave a book entitled 'Web Data Mining: Exploring Hyperlinks, Contents and Usage Data' by Bing Liu for reference.

Two conferences, namely SIGIR and WWW, have a track on Social Network dataset. There I got many Social Networking datasets which can be used for experimentations. Some of them to name are FaceBook, Slashdot-zoo and Epinions. Many publications also were available there on the related domain. A paper from WWW2013 conference entitled "Who Proposed the Relationship? Recovering the Hidden Directions of Undirected Social Networks" by Jun Zhang *et al.* has investigated directionality patterns on real-world directed social

networks and summarized findings using four consistency hypotheses. Jun Zhang et al. has used followers and followees information. It needs to be validated for facebook.

In the third meeting, the steps for design of the methodology for handling intension mining task in undirected dataset were discussed and also decided that I will prepare a draft on literature for intension mining on social networks.

Outcomes:

It was concluded that the area of intension mining of social network data is interesting and have a huge scope for research in it. Standard datasets are available for performing the experimentation. Hence it is possible to apply ideas of intension mining on the datasets like Facebook, Twitter etc. Task of literature survey is to be finish in coming weeks.

Acknowledgements:

In the outset, I thank officials of PEIN program and USC for the support they have extended towards expenses of my travel and stay at Santiago de Compostela. It is their support due to which I could visit the University.

I must thank Prof David for his acceptance to my request to be a coordinator in USC, his support and guidance. He really has helped me a lot in various academic issues as well as made my stay in CiTiUS comfortable and fruitful.

Ms Isabel Barreiro Vázquez from International Office, Mr Fernando and Mr Diago Cougil from CiTiUS really were instrumental in providing me the support during my stay as well as in planning the travel.


Signature and  Stamp

The Host Univeristy Coordinator

Name: **David Losada**

Position: Associate Professor

Place: Santiago de Compostela

Date: June, 2014


Signature

The Grant Holder

Name: **Dr Sachin N. Deshmukh**



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To whom it may concern:

This is to certify that

Prof. Ratnadeep Raghunathrao Deshmukh, Passport No. J1648345, from *Dr. Babasaheb Ambedkar Marathwada University – Aurangabad (India)*, has been granted a scholarship for a short research stay from 26th May 2014 to 20th June 2014 at the University of Santiago de Compostela.

Prof. Ratnadeep Raghunathrao Deshmukh will carry out his research stay in the field of Computer Science and Information Technology at CITUS, hosted by Prof. David E. Losada.

The grant, which includes health insurance coverage, is framed within the Research Excellence Programme USC-India (PEIN).



Enrique López Veloso

Head of the International Office

Universidade de Santiago de Compostela