Smitashree Choudhury

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Ireland

Profile

Researcher and software developer in the areas of social computing, data mining and natural language processing.

Experience

RESEARCH FELLOW, TRINITY COLLEGE, DUBLIN (Feb 2015 - PRESENT)

CNGL/ADAPT Centre : Research and Development in Information Retrieval, personalisation and content recommendation.

RESEARCH ASSOCIATE, KMI, UK OPEN UNIVERSITY- November 2012-November 2014

Project (ROBUST): Worked on user behaviour analysis, pattern detection from online communities that helped to detect types of user/customer and their roles and needs within online communities and social network. Combinations of statistical (Factor analysis) and machine leaning techniques (Clustering, Regression and Decision Tree, Random Forest) were used for the task.

Project (ReelLives): Generating story from data: Language and time series analysis of content to extract significant semantic elements (events, entities etc.) from user created content. Combinations of text analytics, machine learning and semantic technology (Ontology) used to extract knowledge from social media content (Twitter and Facebook, Instagram).

RESEARCH ASSISTANT, KMI,UK OPEN UNIVERSITY - December 2011 - November 2012

Project(NoTube) :Worked on FP7 EU funded collaborative project as a researcher and contributed for semantic modelling of services.

SENIOR E-LEARNING OFFICER, INTI UNIVERSITY COLLEGE,MALAYSIA – OCT 2002 – DECEMBER 2003
(now known as INTI International University and college)

Worked as a senior officer for E-learning content management system.
Responsibility included: System administration and training for student (more than 5000) and faculty (around 300) members.

Web development for a computer magazine (Computer@Home) using HTML, CSS and javascript

Education

National University of Ireland, Galway - PhD (COMPUTER SCIENCES / ENGINEERING), 2012
Thesis Topics: Social Semantic Web, User Video Annotation, Social Context

Multi Media University, Malaysia - Masters in Information Technology, 2006
Thesis Title: Semantic Search with Spreading Activation.

Skills & Technology

Java and Python (Programming)
Python and R (Data science)
Scikit/Pandas and Weka (Machine Learning)
R, Python and Tableau, D3 (Visualisation)
Python and Gephi (Network analysis and visualisation)
SQL and MongoDB (Database)
Lucene & Solr (Text index and search)
NLP and Text Mining
(Hortonwork)Hadoop/Hive/Pig and Spark (Bigdata)
RDF/SPARQL (Semantic Web)

Publications

Smitashree Choudhury & Harith Alani
Detecting Presence of Personal Events in Twitter Streams. Workshop on Interaction and Exchange in Social Media (collocated with Socinfo 2014), November, Barcelona.

Smitashree Choudhury & Harith Alani
Personal Life Event Detection from Social Media, Proceedings of 1st Int. workshop of Social personalisation (collocated with Hypertext 2014).

Smitashree Choudhury, Harith Alani
Exploring User needs in Q & A Communities, Proceedings of European conference on Social Media, Brighton,UK, 2014.

Smitashree Choudhury, John Breslin, Stefan Decker
A Lightweight Web Video Model with Content and Context Descriptions for

Integration with Linked Data, Proceedings of the Semantic Authoring, Annotation and Knowledge Markup (SAAKM 2009) Workshop at 5th International Conference on Knowledge Capture (KCAP 2009), Redondo Beach, California, USA, 2009.

Smitashree Choudhury, John G. Breslin
Extracting Semantic Entities and Events from Sports Tweets. In Making Sense of Microposts (MSM2011) Workshop at 8th Extended Semantic Web Conference, 2011.

Smitashree Choudhury, John G. Breslin
Focused Concept Detection and Polarity Measurement of Web Videos Using Social Context. Webscience, 2010.

Smitashree Choudhury, John G. Breslin
User Sentiment Detection: A YouTube Use Case, Proceedings of the 21st Ireland's National Conference on AI, 2010.

Smitashree Choudhury, John G. Breslin
Enriching Videos With Light Semantics. The Fourth International Conference on Advances in Semantic Processing. SEMAPRO 2010, Florence, Italy

Smitashree Choudhury, John Breslin, Alexandre Passant
Enrichment and Ranking of the YouTube Tag Space and Integration with the Linked Data Cloud, Proceedings of the International Semantic Web Conference (ISWC2009), LNCS, Springer, 2009.

Smitashree Choudhury, John Breslin
Using a Lightweight Multimedia Content Model for Semantic Annotation, Proceedings of the 8th Annual Conference on Information Technology and Telecommunication (IT&T 2008), Galway, Ireland, 2008.

Smitashree Choudhury and Somnuk PhonAmnuaisuk
Semantic Retrieval with Spreading Activation. Proceedings of the MMU International Symposium on Information and Communications Technologies M2USIC 2006, Nov 16 17, Kuala Lumpur, Malaysia (2006).

References

Referees available upon request.