

ABHINAV KUMAR SINGH

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Academics

- **Faculty of Computer Science, Dalhousie University** Halifax, Canada
Research and Teaching Assistance (Computer Science) leading to PhD 2012-14
- **Indian Statistical Institute** Bangalore, India
Junior Research Fellow (NLP, Information Retrieval, Semantic Web) 2011-12
- **Indian Statistical Institute** Bangalore, India
M.S. Information Science (Ontology Engineering and Semantic Web) 2011
- **Institute of Science, Banaras Hindu University** Varanasi, India
B.Sc. (Hons) Chemistry 2009

Employment History

- **PCS Simplified** Lucknow, India
Visiting Faculty (Science & Technology) 2022-Present
- **EKAdemy** Lucknow, India
Teacher and Co-Founder 2019-Present
- **Population Services International** Lucknow, India
Assistant Manager - Information Technology and MIS 2015-19
- **Urban Health Initiative** Lucknow, India
Consultant - Information Technology 2014-15

Teaching Experience

- **UPSC Aspirants** Lucknow, India
Around 2.5 years of teaching experience Since 2021
 - I have experience of teaching **Science & Technology** as well as **General Sciences** to UPSC aspirants.
 - I teach in offline (classroom) as well as online environment.
 - I have experience of content development for Mains.
 - I also have experience of conducting answer-writing classes.
 - I have taught Sc.& Tech and Basic Science to IAS aspirants preparing from Haj Committee of India, Mumbai and Urdu IAS Academy, Uttar Pradesh (For Prelims and Mains)
- **Highschool Students** Lucknow, India
Around 4 years of teaching experience
 - I teach Mathematics, Physics, Chemistry and Biology to students of Highschool (Class 9th and 10th)
- **JEE/NEET Aspirants** Lucknow, India
Around 2.5 years of teaching experience
 - I teach Chemistry to IIT-JEE and NEET Aspirants
- **Graduate Students of Indian Statistical Institute** Bangalore, India
1 year of teaching experience as JRF & Teaching Assistant
 - Taught Semantic Web (Ontology Engineering) practical paper to graduate students.

Fellowship Awarded

2013-14 Research Assistant, at the Faculty of Computer Science, Dalhousie University, Halifax, Canada. (CAD 30,000.00 Annual)

2012-13 Canadian Commonwealth Scholarship, to do research in the Faculty of Computer Science, Dalhousie University, Canada - October, 2012 to March, 2013.(CAD 10,000 for Six months)

2012 Recieved Goethe-Institut Scholarship for research visit to Wissenschaftskolleg zu Berlin (WIKO – Institute of Advanced Study), Germany, for one month in 2012. (EURO 2,500.00 for One month)

2011-13 Junior Research Fellowship by Indian Statistical Institute, Kolkata. (Rs. 2,69,600.00 Annual)

Research Interest

My academic research interest lies in Ontology Engineering, Data Mining, Machine Learning, Medical text analytics, Information Retrieval and Mathematical Morphology. I intend to pursue PhD in Chemo-informatics in near future.

Projects Completed

- **EAQ, Population Services International** Lucknow, India
Assistant Manager - MIS and Information Technology 2015-2019
 - I was involved in the development of a Web based application for Govt. of Uttar Pradesh.
 - This app is a single window solution for registration of service providers and patients. As well as disbursements of amounts to the beneficiaries by the Govt.
 - The data collected by the app empowered Govt. Officers in evidence based decision making.
- **Urban Health Initiative** Lucknow, India
Consultant - Information Technology July,2014 - March,2015
 - I was involved in creation of Urban Health Information System, in collaboration with the Government of Uttar Pradesh.
 - This was launched by the then Honorable Chief Minister of Uttar Pradesh.
- **IMPACT-AF, NICHE Research Group, Dalhousie University** Halifax, NS
Research Assistant Fall 2013- Winter 2014
 - Worked with the Mobile Team to develop mobile application (android/iOS) for IMPACT-AF patients
 - Used Sencha Touch 2.0 framework for creating WebApp and Cordova/Phonegap for creating native apps
- **Analysis of Laboratory Data using Data Mining Techniques, Dalhousie University** Halifax, NS
Research Assistant Fall 2013
 - Report submitted for partial fulfillment of Data Mining in Health Informatics course
 - K-means clustering and J48 classification techniques were used for data mining
- **Matter Domain Modeling, Indian Statistical Institute** Bangalore, India
Independent work 2013-
 - I am involved in the modeling of matter domain, we have prepared a top level ontology and mapping of the concepts are complete according to DERA framework. Core ontology of “matter” is ready, and has been submitted for publication. Further work on its extension, and applications are currently in progress.
- **Subject Indexing, Indian Statistical Institute** Bangalore, India
Graduate Researcher 2012
 - Text analysis of European news articles for preparing subject index strings according to the DEPA facet sequence for the Living Knowledge project funded by European Union.

- Project was supervised by Dr. Devika P Madalli, Associate Professor, DRTC, Indian Statistical Institute
- **UNESCO Global Open Access Portal, Indian Statistical Institute** Bangalore, India
Graduate Researcher 2012
 - Involved in developing UNESCO Global Open Access Portal for Asia and Pacific regions
 - Project was supervised by Dr. Devika P Madalli, Associate Professor, DRTC, Indian Statistical Institute
- **Masters Thesis, Indian Statistical Institute** Bangalore, India
Graduate Researcher 2010 - 2011
 - A Thesis entitled “Development of Personpedia”, under the Guidance of Prof. ARD Prasad, Indian Statistical Institute, was submitted in 2011, for the partial fulfillment of the course leading to the award of Masters Degree, from Indian Statistical Institute
- **Faceted Search System (OkWiki), Indian Statistical Institute** Bangalore, India
Graduate Researcher 2010-2011
 - Worked on Living Knowledge Project to develop faceted search system named as OkWiki under the supervision of Dr. ARD Prasad, and Dr. Devika P Madalli
 - Used Apache Solr Search System

Publications

- M Sharma, AK Singh et al. (2017). “Public Private Interface Agency: An strategy to increase number and coverage of family planning users in urban Uttar Pradesh”, Proceedings of 14th International Conference on Urban Health, Coimbra, Portugal, 26-29 September 2017.
- Syed Sibte Raza Abidi, Abhinav Kumar Singh and Sean Christie (2016). “Transcription of Case Report Forms from Unstructured Referral Letters: A Semantic Text Analytics Approach”, European Federation for Medical Informatics (EFMI), Munich, Germany, 28 August - 2 September 2016. pp. 322-326.
- Devika Madalli , Anila Sulochana and Abhinav Kumar Singh (2016). “COMAT: Core Ontology of Matter”, Program Journal. 50 (1), pp.103 - 117.
- Rajesh Kumar Mishra, Abhinav Kumar Singh, Gaurav Sharma, (2015) “Web Based Urban Health Information System”, The 12th International Conference on Urban Health, Dhaka, Bangladesh, May 24-27, 2015
- K Srivastava, G Pillai, MK Sharma, N Murthy, G Sharma, AK Singh, (2015) “Intensified Mapping and Listing Ensures Health Services for Urban Poor”, The 12th International Conference on Urban Health, Dhaka, Bangladesh, May 24-27, 2015
- Abhinav Kumar Singh, Syed Sibte Raza Abidi, (2014) “Transcription of Case Report Forms from Unstructured Referral Letters: A Semantic Text Analytics Approach”, accepted for publication in the proceedings of 25th European Medical Informatics Conference - MIE2014 - in Istanbul, August 31st - September 3rd, 2014
- Preedip Balaji Babu, Kadari Santosh Kumar, Nilesh A. Shewale, Abhinav K. Singh, (2012) “Rationale of institutional repository categories and IR development challenges in India”, Library Review, Vol. 61 Iss: 6, pp.394 – 417
- Abhinav Kumar Singh, Nilesh A. Shewale, (2011) “Securing Information in Infected Library Networks”, International Conference on Digital Library Management, Kolkata, January 11-13, 2011
- Abhinav Kumar Singh, Nilesh.A .Shewale, Ali Raza, (2010) “Open Source Licensing” NACIAL 2020 Tumkur, Bangalore, August 12-14, 2010

Other Activities

- Trained a Tax Consultancy firm, to model their domain in OWL ontology, for developing an Expert System (Artificial Intelligence based) and Question-Answering System.
- Presented a seminar on, “Ontology based semantic annotation and retrieval of medical information”, in July 2012, in Indian Statistical Institute, Bangalore.
- Presented a paper entitled “Securing Information in Infected Library Networks”, in International Conference on Digital Library Management, Kolkata, January 11-13, 2011.
- Attended ISI / IRSI / DAIICT Winter School on Information Retrieval Systems and Experimentation, at Statistical Quality Control Unit, Indian Statistical Institute, 21-23 December 2010, Bangalore.

References

- **Available on request!**