Rao Muhammad Umer

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http://raoumer.github.io   Sahiwal, Punjab,
                                 Pakistan.

Research Interests

Data Science, Machine Learning, Big Data Analytics, Deep Learning, Natural Language Processing, Information Retrieval and Data Mining.

Education

Nov 14 - Oct 16	**MS in Computer Science**, *Pakistan Institute of Engineering and Applied Sciences*, Nilore, Islamabad, Pakistan. Area: Computational Intelligence and Machine Learning Cgpa: 3.45/4.0
Sep 10 - Oct 14	**BSc. in Computer Systems Engineering**, *The Islamia University of Bahawalpur*, Bahawalpur, Pakistan. Major Subjects: Parallel and Distributed Computing, Image Processing Cgpa: 3.82/4.0
Sep 08 - Sep 10	**FSc. in Pre-Engineering**, *Government Post Graduate College*, Sahiwal, Pakistan. Major Subjects: Mathematics, Physics, Chemistry Percentage average: 86%, 943/1100 Marks.
Mar 06 - Aug 08	**Matriculation in Science**, *Lasani Public High School*, Sahiwal, Pakistan. Major Subjects: Mathematics, Physics, Chemistry, Biology Percentage average: 92%, 783/850 Marks.

Research Experience

Jun 16 - Oct 16	**MS Thesis**, *Pakistan Institute of Engineering and Applied Sciences*,Islamabad, Pakistan. • Deep Content Extractor: Content Discovery From Deep Web Using Large Scale Data Analytics Paradigm • Techniques: supervised learning, classification, recommender system, ranking • Data Size: 44 MB (Analyzed 20newsgroup dataset and raw text data of webpages)
Sep 13 - Sep 14	**Technical Report**, *The Islamia University of Bahawalpur*, Bahawalpur, Pakistan. • Spam Filtering System: Malicious Email Detection and Filtering System Using Bayesian Machine Learning Algorithm • Techniques: supervised learning, Bayesian learning, classification • Data Size: 15 MB (Analyzed spam & non-spam emails dataset) • Led a team of 4 undergrad student to develop spam filtering system

Talks

Feb 16	**Implementation of Linear Regression and Multi-variate Regression on GPU**, *GPU Computing workshop, Pakistan Institute of Engineering and Applied Sciences*, Islamabad, Pakistan.
Aug 16	**Deep Learning & GPUs**, *Introduction to DNNs workshop, Pakistan Institute of Engineering and Applied Sciences*, Islamabad, Pakistan.

Open Source Projects

doccatpredapp	Document's Category Predictor Webapp.	http://doccategorypredictor.herokuapp.com
docWebClf	Documents & Webpages Classification.	http://raoumer.github.io/docs_classification
regrGPU	Linear & Multiple Regression on GPU.	http://raoumer.github.io/GPU-Workshop-PIEAS-2016

Honors and Awards

Nov 14 - Oct 16	**PIEAS Fellowship by PIEAS IT-Endowment Fund**,*sponsored by Higher Education Commission(HEC) for MS Computer Science.*
Sep 10 - Sep 14	**Fully Funded National ICT Scholarship**, *by National ICT R & D Fund for BSc. Computer Systems Engineering.*
Jun 11 - Jun 14	**Position Scholarship**, *by University College of Engineering and Technology, The Islamia University of Bahawalpur for excellent academic performance throughout undergraduate degree.*
Sep 10 - Sep 14	**Merit Scholarship**, *by Punjab Educational Endowment Fund(PEEF) for excellent academic performance in higher secondary school examination.*
Oct 08 - Aug 10	**Merit Scholarship**, *by Multan Board of Intermediate and Secondary Education for excellent academic performance in secondary school examination.*
Aug 06 - Aug 08	**Merit Scholarship**, *by Multan Board of Intermediate and Secondary Education for excellent academic performance in District level school examination.*

Voluntary Work

Sep 12 - May 14	**Member**, *Blood Donating Society*, The Islamia University of Bahawalpur, Bahawalpur, Pakistan.
Nov 08 - May 10	**Decision Committee Member**, *College Gardening and Other Infrastructure Maintenance*, Govt. Post Graduate College, Sahiwal, Pakistan.

Skills

Languages	• Urdu: Native	• English: Fluent
Hobbies	• Cricket	• Reading Historic Books
Programming	Python, C/C++, Java.	
Scientific Software	Theano, Scikits-learn, Scipy, Numpy, IPython, Jupyter Notebook, Matplotlib, Flask, Pandas, Anaconda Python, Heroku, Git, Latex.	
Computer Skills	Experienced in managing Linux and Windows systems.	

References

Dr. Muhammad Abid Mughal
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Applied Sciences,
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