RAO MUHAMMAD UMER

engr.raoumer943@gmail.comhttp://raoumer.github.io +92 336 7675246 Sahiwal, Punjab, Pakistan.

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: AI, 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 Interests

Computer Vision, Machine Learning, Deep Learning, Data Science, Big Data Analytics, Natural Language Processing, Information Retrieval and Data Mining, High Performance Computing.

Research Experience

Jun 16 - Oct 16 MS Thesis, Pakistan Institute of Engineering and Applied Sciences, Islamabad,

- Deep Web Extractor (DWX): Content Discovery From Deep Web Using Large Scale Data Analytics Paradigm
- \bullet Techniques: supervised learning, classification, structured learning
- Data Size: 68 MB (Analyzed Web forms dataset) & 1 GB (Raw Webpages Dataset)

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 Fellow to develop spam filtering system

Teaching Experience

OCT 16 - CONT. Lecturer, Department of CS & IT, The University of Lahore, Lahore, Pakistan. Summer 2017: • Data Structures and Algorithms (CS-2112)

Spring 2017: • Digital Logic Design (CS-4349) • Business Computing (CS-1010)

Fall 2016: • Programming Fundamentals - I (CS-1012) • Introduction to Information and

Communication Technologies (CS-1010) • Digital Logic Design (CS-4349)

Note: All taught courses link is available at: http://raoumer.github.io/courses.html

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Apr 10, 2017	Open Data Resources For Data Science Research, http:		
	//raoumer.github.io/blog_posts/data_sources.html.		
Mar $11, 2017$	Current Machine Learning research directions, http://raoumer.github.		
	io/blog_posts/ml_research_problems.html.		
Jan $16, 2017$	Building Machine Learning Systems with Python, http:		
	//raoumer.github.io/blog_posts/building_ML_model.html.		
Dec 19, 2016	Data Science Industrial Roles: Who Does What?, http:		
	//raoumer.github.io/blog_posts/ds_industry_roles.html.		
Aug 06, 2016	Deploying Data Apps with Flask, Github and Heroku,		
,	http://raoumer.github.io/blog_posts/webappdev.html.		
Jun 18, 2016	The Deep Web, http://raoumer.github.io/blog_posts/deep_web.html.		
Talks			
Aug 16	Deep Learning & GPUs, Introduction to DNNs workshop, Pakistan Institute		
	of Engineering and Applied Sciences, Islamabad, Pakistan.		
Feb 16			
on GPU, GPU Computing workshop, Pakistan Institute of Engineering			
	Applied Sciences, Islamabad, Pakistan.		
Open Source Proje	ects		
d	Doop Web Extractor System		

dwx	Deep Web Extractor System.	http://raoumer.github.io/dwx
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

- OCT 16 Best MS Thesis Award, from Department of Computer and Information Sciences, PIEAS, Islamabad, Pakistan.

 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.

Workshops & Trainings

Nov 01 - 03, 2016	Faculty Development Training, Contents: "Teaching methodology, Curriculum		
	Designing, Assessment", The University of Lahore, Lahore, Pakistan.		
Sep 15 - 16, 2016	Deep Learning, Take part as a resource person, Department of Computer &		
	Information Sciences, PIEAS, Islamabad, Pakistan.		
Feb 15 - 19, 2016	General Purpose Computation on GPUs using CUDA C, Take part		
	as a resource person, Department of Computer & Information Sciences, PIEAS,		
	Islamabad, Pakistan.		
Jun 22 - July 9 ,	Python Programming in Engineering & Applied Sciences, Take part as		
2015	a student, Department of Computer & Information Sciences, PIEAS, Islamabad,		
	Pakistan.		
Jun 01 - 15, 2013	LAMP (Linux, Apache, MySQL, PHP) Server, Take part as a student,		
	Department of Computer System & Electronics Engineering, The Islamia		
	University of Bahawalpur, Bahawalpur, Pakistan.		

Skills

Languages	• Urdu: Native	• English: Fluent
Hobbies	• Cricket	• Reading Newspaper Columns
Programming	Python, $C/C++$, Java.	
Scientific Software	Theano, Scikits-learn, Scipy, Numpy, 1	IPython, Jupyter Notebook, Matplotlib,
	Flask, Pandas, Anaconda Python, Hero	oku, Git, Latex.
Computer Skills	Experienced in managing Linux and W	Vindows systems.

Voluntary Work

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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.

References

Dr. Muhammad Abid Mughal	Dr. Asifullah Khan	Dr. Fayyaz-ul-Amir
Department of Computer Science,	Department of Computer Science,	Department of Computer Science,
Pakistan Institute of Engineering and	Pakistan Institute of Engineering and	Pakistan Institute of Engineering and
Applied Sciences,	Applied Sciences,	Applied Sciences,
Nilore, Islamabad, Pakistan.	Nilore, Islamabad, Pakistan.	Nilore, Islamabad, Pakistan.
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