

RAO MUHAMMAD UMER

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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: 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

Data Science, Big Data Analytics, Machine Learning, Deep Learning, 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, Pakistan.
 - Deep Web Extractor (DWX): Content Discovery From Deep Web Using Large Scale Data Analytics Paradigm
 - Techniques: supervised learning, classification, structured learning
 - Data Size: 68 MB (Analyzed Web forms 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 student to develop spam filtering system

Teaching Experience

- OCT 16 - CONT. **Lecturer**, *Department of CS & IT, The University of Lahore*, Main Campus, Defence Road, Lahore.

Talks

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

Open Source Projects

docatpredapp	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 Newspaper Columns
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 Department of Computer Science, Pakistan Institute of Engineering and Applied Sciences, Nilore, Islamabad, Pakistan. ✉ mabidm@pieas.edu.pk	Dr. Asifullah Khan Department of Computer Science, Pakistan Institute of Engineering and Applied Sciences, Nilore, Islamabad, Pakistan. ✉ asif@pieas.edu.pk	Dr. Fayyaz-ul-Amir Department of Computer Science, Pakistan Institute of Engineering and Applied Sciences, Nilore, Islamabad, Pakistan. ✉ afsar@pieas.edu.pk
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