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RAO MUHAMMAD UMER

EDUCATION

MS (Computer Science)

- CGPA of **3.45/4.0** (not relative) with distinction
- Area: Computational Intelligence and Machine Learning

2014 – 2016   Pakistan Institute of Engineering & Applied Sciences

(PIEAS), Nilore, Islamabad, Pakistan

BSc (Computer Systems Engineering)

- CGPA of **3.82/4.0** (not relative) with distinction
- Major Subjects: Parallel and Distributed Computing, Image Processing

2010 – 2014   The Islamia University of Bahawalpur (IUB), Pakistan

FSc (Pre-Engineering)

- Marks: **943/1100** , Grade: **A+** with distinction
- Major Subjects: Mathematics, Physics, Chemistry

2008-2010   Government Post Graduate College, Sahiwal, Pakistan

Matriculation (Science)

- Marks: **783/850** , Grade: **A+** with distinction
- Major Subjects: Mathematics, Physics, Chemistry, Biology

2006-2008   Lasani Public High School, Sahiwal, Pakistan

AWARDS & HONOURS

2014-2016

PIEAS Scholarship by PIEAS IT-Endowment Fund, HEC for MS Computer Science

2011

Laptop Award by Chief Minister e-Youth Initiative Program for excellent academic performance in first year examination of undergraduate degree

2010-2014

Position Scholarship by University College of Engineering and Technology, IUB for excellent academic performance in undergraduate degree

2010-2014

Fully Funded National ICT Scholarship by National ICT R&D Fund for BSc Computer Systems Engineering

2010-2014

Merit Scholarship by Punjab Educational Endowment Fund for excellent academic performance in higher secondary school examination

2008-2010

Merit Scholarship by Multan Board of Intermediate & Secondary Education for excellent academic performance in secondary school examination

2006-2008

Merit Scholarship by Multan Board of Intermediate & Secondary Education for excellent academic performance in District level school examination

RESEARCH INTERESTS

Data Science, Big Data Analytics, Machine Learning, Deep Learning, Natural
Language Processing, Information Retrieval and Data Mining, Pattern
Recognition and Classification, High Performance Computing

RESEARCH

- **Thesis**
  - Rao Muhammad Umer**, Deep Content Extractor: Content Discovery From
    Deep Web Using Large Scale Data Analytics Paradigm**, MS (Computer
    Science) thesis, Pakistan Institute of Engineering and Applied Sciences,
    Islamabad, Pakistan, 2016.
- **Report**
  - Rao Muhammad Umer, **Spam Filtering System: Malicious Email Detection
    & Filtering System Using Bayesian Machine Learning Algorithm**, BSc
    (Computer Systems Engineering) Final Year Project Report, The Islamia
    University of Bahawalpur, Bahawalpur, Pakistan, 2014.
- **Projects**
  - Rao Muhammad Umer, **Documents Classification using SVM Kernelized
    Approach**, MS (Computer Science) semester project , Pakistan Institute of
    Engineering and Applied Sciences, Islamabad, Pakistan, 2016.
  - Rao Muhammad Umer, **Text Classification using Deep Learning**, MS
    (Computer Science) semester project, Pakistan Institute of Engineering and
    Applied Sciences, Islamabad, Pakistan, 2016.
  - Rao Muhammad Umer, **House Prices Prediction using Linear/Multiple
    Regression on GPU**, MS (Computer Science) semester project , Pakistan
    Institute of Engineering and Applied Sciences, Islamabad, Pakistan, 2015.
  - Rao Muhammad Umer, **Content-Based Image Classification Using Multi-
    Objectives Genetic Programming**, MS (Computer Science) semester
    project , Pakistan Institute of Engineering and Applied Sciences, Islamabad,
    Pakistan, 2015.
  - Rao Muhammad Umer, **Shell Programming, Writing and Running
    Custom Scripts, Sharing and Accessing Resources in Ubuntu Linux**, MS
    (Computer Science) semester project , Pakistan Institute of Engineering and
    Applied Sciences, Islamabad, Pakistan, 2014.

- Rao Muhammad Umer, **Online Education Portal website using LAMP Server**, BSc (Computer Systems Engineering) semester project, The Islamia University of Bahawalpur, Bahawalpur, Pakistan, 2013.
- Rao Muhammad Umer, **PIC Sonar Range Finder using seven segment display and PIC micro-controller**, BSc (Computer Systems Engineering) semester project, The Islamia University of Bahawalpur, Bahawalpur, Pakistan, 2012.
- Rao Muhammad Umer, **LED Electronics Dice using Basic Logic Gates**, BSc (Computer Systems Engineering) semester project, The Islamia University of Bahawalpur, Bahawalpur, Pakistan, 2011.

PRESENTATIONS

- Dr. Muhammad Abid Mughal, Wajid Irshaid, **Rao Muhammad Umer**, Naveed Akhtar, Implementation of Linear Regression and Multi-variate Regression on GPU at GPU Computing Workshop in Pakistan Institute of Engineering and Applied Sciences, Islamabad, Pakistan, February 2016.

VOLUNTEER WORK

- Rao Muhammad Umer, Blood Donating Society, BSc (Computer Systems Engineering), The Islamia University of Bahawalpur, Bahawalpur, Pakistan, 2012-2014.
- Rao Muhammad Umer, Decision Committee Member for College Gardening and Other Infrastructure Maintenance, Govt. Post Graduate College, Pakistan, 2008-2010.