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# RAO MUHAMMAD UMER

## EDUCATION

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### MS (Computer Science)

- CGPA of **3.33/4.0** (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, Pakistan

### F.Sc (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

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2014-2016

**PIEAS Fellowship 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

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Data Science, Big Data Analytics, Machine Learning, Deep Learning, Information Retrieval and Data Mining, Pattern Recognition and Classification, High Performance Computing, Digital Image Processing and Analysis

## RESEARCH

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- **Theses**
  - 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

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- 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

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- 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.