

# Kushal Khandelwal

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## Education

Institute	Qualification	Year of Passing	Percentage/CGPA
BITS Pilani KK Birla Goa Campus	B.E.(Hons) Electronics and Instrumentation + M.Sc.(Hons) Chemistry	2015(expected)	6.03
Indian International School, Jaipur	Class 12	2009	89.8%
Indian International School, Jaipur	Class 10	2007	89%

## Relevant Coursework:

Digital Image Processing, Operational Research, Optimization, Linear Algebra, Differential Equations, Multivariable Calculus, Probability and Statistics, Computer Programming I and II, Microprocessor Programming and Interfacing, Circuits and Signals, Transducers\*, Control Systems\*, Numerical Analysis\*

## Teaching Experience:

*Instructor, Advanced Image Processing (at Centre for Technical Education under CS/IS Dept.)*

This course introduces fundamental technologies for digital image/video representation, compression, analysis and processing. Students will gain understanding of algorithm/system design, analytical tools and practical implementation of various digital image applications.

## Internships:

*Intern, Wipro InfoTech*

*(May 2011 – July 2011)*

- Design and Development of Rajasthan Government's Web Portal
- Understanding SRS and design of website mockups

*Intern, Steel Authority of India Limited*

*(May 2012 – July 2012)*

- Studying of Transport and Signaling Systems
- Analyzed existing signaling system between departments for optimal transport of rail wagons.

*Intern, E-Cognosys Information Systems Private Limited*

*(May 2013 - June 2013)*

- Developed a Twitter feed mining interface and performed sentimental analysis for gather of insights on particular topic in question.
- Set-Up of an Apache Hadoop cluster and performing Map Reduce calculations.
- Visualization of data using d3.js

## Projects:

- *Design and Deployment of LDAP based user authentication model for all Student Hostels at BITS Pilani, Goa.*
  - Deployment of User Authentication mechanism for permission based internet access.
  - Deployment of a Squid based reverse proxy
- *Deployment of a Single Sign On implementation*
  - Using LDAP based Central Authentication Server for access to intranet services.
  - Currently used in BITS Goa

- *Understanding the Impact of Cross Cultural Communications in Industry\**
  - Studying the impact of Cross Cultural Communication Gap on employees in Industry
  - Designing an algorithm based on machine learning techniques to create a model to measure this effect
- *Image Processing based OMR and Text scanner\**
  - *Written in python for processing scanned OMR sheets.*

### **Skill Set:**

*Embedded Platforms worked with:* Arduino Nano, 8086, 8051

*Design Automation and Simulation Tools:* PSPICE, Auto Cad

*Programming Languages:* Matlab, C, C++, MASM, Ruby, Python

*Web Programming:* PHP, CSS, HTML5, JavaScript, JQuery, SQL, Django

*Operating Systems:* Linux, Windows

*Others:* Linux Administration, Apache Hadoop, d3.js

### **Positions of Responsibility:**

- **Vice Chairperson:** IEEE Student Branch BITS Pilani KK Birla Goa Camus (2012-13)
- **General Secretary,** Council for Student Affairs, BITS Pilani KK Birla Goa Campus (2011-12)

### **Areas of Interest:**

Machine Learning and Natural Language Processing, Deep Learning algorithms for better sentimental analysis, Big Data Analysis, Applications of Image processing, System Administration, and Business Intelligence