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# AYUSH SHUKLA

## EDUCATION

| Degree/Course | Institute/School | CGPA/Percentage | Year |
|---|---|---|---|
| Integrated MSc in Mathematics And Computing | IIT Kharagpur | 8.55/10 | 2011-present |
| Board of Secondary Education M.P.(Class XII) | Gyandeep Higher Secondary, Balaghat | 81.6% | 2009-2010 |
| All India Secondary School Examination(Class X) | Kendriya Vidyalaya | 90% (PCM-97.5%) | 2007-2008 |

## SCHOLASTIC ACHIEVEMENTS

- Got **Pre-placement offer** from **ezDI,** Ahmedabad (2015)
- Selected in **MHacks,** world's largest hackathon organised by **University of Michigan**
- Ranked among top **5** students in the department
- Secured a rank in top **0.6%** out of 5,00,000 students appeared in **IIT-JEE** (2011)
- Secured a percentile of **99.87**% in All India Engineering Entrance Examination (2011)
- Awarded a prestigious scholarship of **$1000** US dollars yearly from **INSPIRE** Scholarship Program

## SUMMER INTERNSHIP

**Software Developer**     **ezDI Healthcare**     **May-July'15**

Implementation of **search engine** for International Classification of Diseases **ICD-9** and **ICD-10** directory of medical codes
- Worked on the development of high performance search engine with loosely-coupled components and **build for change** architectural pattern
- Built a tool that converts unstructured data to structured, normalize and maps it with various computer-processable unit
- Implemented in **Java** with technology stack Spring framework, hibernate, Apache lucene, Jsoup etc

**Student Research Assistant**     **Karlsruhe Institute of Technology, Germany**     **May-June'14**

Implementation of Java plugin for Unity software service providing authorization functionality on proxy certificates
- Built a plugin to provide digital Attributes to client's proxy certificate that is used to access sensible resources
- Explored Cryptographic aspects of the client-server architecture that uses Public Key Infrastructure (**PKI**) for authorization

**Technical intern**     **OdigMa, Bangalore**     **May-June'13**

Development of tool that analyses Twitter trending Algorithm
- Mined data Mined data from Twitter API 1.1, stored it in a relational database with proper schema and analysed data on the basis of pre-defined parameters
- The technology stack involved PHP, Javascript, MySQL and libraries jQuery and highcharts.js

## ACADEMIC PROJECTS

**Master's Thesis Project**     **IIT Kharagpur**     **July'15-current**

Functional data analysis
- Get smooth curves from noisy data using B-splines basis function and group them into different classes

**Natural Language Processing**     **IIT Kharagpur**     **July'15-current**

Understanding tweets of people during disaster and how it varies over time
- Built a classifier to separate out tweets based on - sympathy, opinion, event analysis and then analyzed how they vary over time

**App Development**     **IIT Kharagpur**     **2013**

- Developed android application **ScienceProject** for Akash tablet development, sponsored by MHRD, govt. of India
- Developed an app **SOS** on Windows platform for the day long **Hackathon** organised by **Microsoft IDC**

## RELEVANT COURSEWORK

| | | | |
|---|---|---|---|
| Natural language processing | Machine Learning | Probability and Statistics | Statistical Inference |
| Software Engineering | Operating Systems | Object oriented system design | Computer Networks |
| Switching and finite automata | Programming&Data structures | FDBMS | Design&analysis of algorithm |

## LANGUAGES AND TECHNOLOGIES

- C, C++, Java, JavaScript, Python; MySQL; jQuery; LaTex
- Eclipse, Pycharm, MATLAB; Ubuntu, Android, Windows

## ADDITIONAL EXPERIENCE AND AWARDS

- B-certificate and rank holder of Flight Commander in NCC in the session 2011-12 at IIT Kharagpur
- Represented the district Bhilai at Chattisgarh state level competition in table tennis
- Part of the bronze winning Interhall Tennis team and gold winning illumination team