

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)
- One of the 500 international student selected for **MHacks**, largest hackathon competition organised by University of Michigan
- Department rank 5th out of 55 students in the department of Mathematics, IIT Kharagpur
- 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)

SUMMER INTERNSHIP

Java / Spring Developer ezDI Healthcare Summer 2015

Web App : a **search engine** for International Classification of Diseases **ICD-9** and **ICD-10**

- Developed a high performance search engine with loosely-coupled components and **build for change** architectural pattern
- Implemented a see-mapping tool that enabled deep search and enhanced the performance for see and see-also links
- Built a scalable preprocessing tool to create structured hierarchical data model for faster and precise result
- Architected back-end database model, indexed in the RAM directory and returned the search result in less than 8ms as compared to other global competitors which takes more than 500ms

Student Research Assistant Karlsruhe Institute of Technology, Germany Summer 2014

Advised by Prof. Christopher Yung, Large Scale Database Management and Analytics group

- Worked on 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 Summer 2013

Development of tool that analyses Twitter trending Algorithm

- 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
- Created an online platform where user can access this analytic tool and compare the graphs between different trends
- 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
- Built an application in python that classifies different world cities on the basis of historical weather data

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 – sentiment, government, event analysis, donation and then analyzed how they vary over time
- Used SVM as base model followed by TruncatedSVD and achieved the accuracy of 80% after lemmatization

App Development IIT Kharagpur 2013

- Developed an android app ScienceProject for Akash tablet development, sponsored by MHRD, govt. of India. App can be used by any secondary school level student for exploring different science project in a very interactive way.
- Developed a C# app SOS on Windows platform for the day long Hackathon organised by Microsoft IDC. In case of emergency, it allows you to send your location to any close friend and let them know about the situation

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, Python, MySQL, Javascript, HTML, CSS, LaTeX
- Eclipse, Pycharm, MATLAB; Ubuntu, Android