

Harsh Gupta

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Education	Qualification	Institute	Score	Duration
	B.Tech	IIT Mandi, Himachal Pradesh	8.83/10	<i>Aug 2014 - present</i>
	Class XII	Greenway Modern School, Delhi	92.2%	<i>Apr 2012 - Mar 2013</i>
	Class X	Greenway Modern School, Delhi	9.8/10	<i>Apr 2010 - Mar 2011</i>

Interests Competitive Programming, Algorithms and Data Structures, Interactive Programming, Data Analysis and Machine Learning

Relevant Courses Taken Pattern Recognition (IIT Mandi), Intro to Data Analysis (Udacity), Intro to Machine Learning (Udacity), Intro to Descriptive and Inferential Statistics (Udacity), Linear Algebra (IIT Mandi), Mathematical Foundation of Computer Science (IIT Mandi), Applied Database Practicum

Data Analysis Experience

- Explored the Titanic data by posing relevant questions on it and investigated the data from different angles to find required answers, communicated the findings through plots generated by matplotlib
- Developed the person of interest classifier in Enron fraud case. Cleaned the irregular data obtained from Enron corpus by removing outliers. Applied feature scaling to avoid producing biased results
- Participated in ZS Young Data Scientist Challenge 2016

Computer Skills

Languages: C++, C, Python
Software: MySQL, Git, Excel, IPython Notebook
Libraries: STL, SimpleGUICS2Pygame, Pandas, Numpy
Web Design: Basic HTML, Basic CSS, Basic Javascript

Prizes & Honors

- Represented IIT Mandi from Team CatChronicles, Rank 36, at the ACM-ICPC Kolkata Regionals, 2015
- Represented IIT Mandi from Team CatChronicles, Rank 49 at the ACM-ICPC Chennai Regionals, 2015
- Awarded 2nd prize, CodeCuff, Inter year competitive coding competition, IIT Mandi
- Awarded 3rd prize, Code War, organized by Programming Club IIT Mandi
- All India Rank 12, June Mayhem, an online coding competition, Hackerearth 2015
- Won Gold in Chess at Rann (Inter House Sports Tournament) 2015

Projects

Smart Power Room *Mar-May 2016*

- Designed and developed a device to generate electricity from solar, mechanical rotatory and piezo energy
- Researched new ways of generating electricity by analysing pre-existing technology, utilized energy storage by constructing electrical circuit for optimal current output
- Supervised 5 other members in a team by assigning them task based on their skills. Administered and assisted the execution of work till completion of the project

RiceRocks (Asteroid) *Jun-Jul 2015*

- Developed a game similar to classic arcade style asteroid game
- Implemented different graphical user interface for it using python library SimpleGUICS2Pygame

Extra Curricular Activities

- Participated in 100+ contests on various programming sites
- Instructed set of competitive programming skills to IIT Mandi first year students to develop coding environment of the college
- Volunteered as Teaching Assistant for the course on Data Structures and Algorithms
- Vice Chair at ACM Student Chapter, IIT Mandi
- Member, Programming Club (IIT Mandi)
- Member, Association for Computing Machinery (ACM)