GURPREET SINGH

B. Tech, Department of Computer Science and Engineering

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ACADEMIC DETAILS

Year	Degree	Institute	CPI/Percentage	
2015-	B.Tech (Computer Science & Engineering)	Indian Institute of Technology	8.8/10.0	
2014-2015	Class XII (CBSE)	Delhi Public School	94.4%	
2012-2013	Class X (CBSE)	Delhi Public School	9.6/10.0	

SCHOLASTIC ACHIEVEMENTS

• Secured **All India Rank, 174** in the **JEE Advanced** examination amongst 1.5 lakh students (2015)

• **Kishore Vaigyanik Protsahan Yojana (KVPY)** Scholar (Qualified 2nd Stage) (2015)

TECHNICAL SKILLS

• **Programming Languages:** C, C++, R, Python, Octave/MATLAB, Java

• Assembly Languages: MIPS, Verilog

• Scripts: Bash, VBScript

• Machine Learning: Basic Machine Learning Methods (implementations on R) and Concepts

• **Tools:** gnuplot, Latex, Photoshop, Git

• Web Development: PHP, Javascript, JQuery, MySQL, CSS/HTML, Angular.js, Node.js

PROFESSIONAL EXPERIENCE

• **EXXAMM.COM** (Internship)

(Exxamm.com, Delhi, Jan'16 - Dec'16)

- Worked as an intern in this venture, which provides free learning tool for many national competitive exams in India such as JEE Mains and Advanced, NEET, NDA, Olympiads, etc.
- Worked as the main full stack developer behind the project
- Lead architect of the core content engine and front end web interface
- **CONTENT CURATION TOOL** (Internship)

(Inmobi, Bangalore, Dec '15)

- Worked in the Ono team in Strategic Advertising for better product discovery and user experience
- Developed a Curator Tool for an App to scrape and render information from the web
- Designed the main interface and set up the main engine to scrape various websites

PROJECTS

SMART IMAGE ADVERTISING

(Google DevFest, Nov'16)

- **Objective:** Develop a web-app for smart advertising using image analysis
- Approach:
 - i. Developed a web-app with controls to upload an image through url
 - ii. Backend program to detect objects in an image during upload using Clarifai API
 - iii. Objects stored as tags in database, and used to search through products from different e-commerce websites such Ebay, Amazon, etc. using their **Affiliate API**
- Tools/Languages Used:

PHP, MySQL, HTML/CSS, Javascript/JQuery, Clarifai API, Ebay & Amazon API's

ROTATING CAR PARKING

(TA202 Course Project, Jan'17 - Apr'17)

- Working in a team of 8 people to develop a rotating car parking
- Approach is to make a parking frame with a worm gear to enable one sided revolution
- **Usage:** To allow multiple cars to be stacked with lesser parking space

AUTO ROTATING SOLAR PANEL

(TA201 Course Project, Aug'16 - Dec'16)

- Mtating solar panel frame, controlled using an Arduino
- Acted as the CEO of the group project (group of 4 people)
- O Designed the business plan and marketing brochure for the project
- o **Usage:** To allow higher levels of electricity production in solar farmsade a ro

SERVICE PROVIDER MODEL

(Microsoft Code.Fun.Do, Oct'15)

- **Object:** To develop a desktop/mobile app which provides services
- **Approach:** Created an interface for users to find services and an interface for service providers to register
- Tools/Languages Used:
 Visual Studio, C#, XAML

UNSUPERVISED PROJECTS

• FAT.JAPAN (Ongoing)

- Japanese Language E-Learning Website using Angular.js
- Developed an example based learning platform
- Tools/Languages Used:
 Angular.js, MySQL, HTML/CSS, Javascript

http://www.cse.iitk.ac.in/users/guggu/fat-japan/

• FAT.CAROUSEL

(Inspired by Owl Carousel)

- Developed a JQuery extended plugin for simple embedding of stylish image based carousel
- Currently supports only images
- Completely responsive, with advanced button and scroll controls
- Tools/Languages Used: HTML/CSS, Javascript

http://www.cse.iitk.ac.in/users/guggu/plugins/fat-carousel/

RELEVANT COURSEWORK

COMPUTER SCIENCE AND ENGINEERING

th Sem)
th Sem)
rd Sem)
rd Sem)
rd Sem)
st Sem)

MATHEMATICS

1.	Probability and Statistics (*)	(IITK, 4th Sem)
2.	Linear Algebra	(IITK, 2nd Sem)
3.	Real Analysis and Calculus (A)	(IITK, 1st Sem)

MISCELLANEOUS

1.	Machine Learning	(Coursera)
2.	Introduction to Economics (*)	(IITK, 4th Sem)
3.	Numerical Methods in Engineering	(IITK, 3rd Sem)
4.	General Chemistry	(IITK, 2nd Sem)
5.	Introduction to Sociology	(IITK, 1st Sem)

(* - Ongoing Course) (A* - Excellent Performance) (A - Very Good Performance)

Position of Responsibility

• **ACADEMIC MENTOR** (Counselling Service, IITK)

(Jul '16 - Apr '17)

- Worked as an academic mentor for **Fundamentals of Computing**
- Took multiple doubt clearing sessions, both hall level and institute level
- Took multiple institute level classes and also gave one-on-one tutoring to a few students

Extra-Curricular Activities

- Completed one year Japanese Language course under the IITK FLP Programme
- Participated in Table Tennis in an Inter Hall Sports Competition
- Participated in other Inter Hall Competitions such as Black Box (Esoteric Language Competition), Electromania (Electronics Competition), and Fresher's 3X3X3 (Rubik's Cube Competition)
- Winner in Crime Run with a team of four people (Inter Hall Competition)
- Worked as a volunteer in Table Tennis, UDGHOSH'15