RISHAB GOEL

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ACADEMIC QUALIFICATIONS

YEAR	DEGREE/ GRADE	UNIVERSITY/ INSTITUTION	CGPA/PERCENT
2017 (expected)	Major in Textile Technology Minor in Computer Science	Indian Institute of Technology, Delhi	8.378*/ 10
2013	Senior Secondary Education (C.B.S.E.)	Sacred Heart Sen. Sec. School	96%
2011	Secondary Education (C.B.S.E.)	Sacred Heart Sen. Sec. School	10.00/ 10

*till 6th semester

RESEARCH PROJECTS

MRI IMAGE SEGMENTATION (NEUROIMAGING)   *IIT DELHI*
Machine Learning *under Professor Rahul Garg*   *June 2015*

- Did Image registration of the raw MRI images in four modalities (namely T1, T2-weighted, MR angiography, Proton Density) to a standard image.
- Wrote automated R scripts to label data into Grey, White matter, cerebrospinal fluid, Skull, Blood Vessels from the registered images.
- Used **Gradient boosting Machines** and **Random Forest Search** to classify Grey and White matter, Cerebrospinal fluid, Blood Vessels and Skull regions for neuro pre-operative purposes.

INTERNSHIPS

SOFTWARE DEVELOPER   ROUTOFY SERVICES PVT. LTD.
Under Abhishek Aggarwal (Co-Founder)   *Sept-Nov 2014*

- **DATA MINING**
  Developed **Automated Scripts** in Python, to crawl and manipulate data for the company.
- **USER ACTIVITY TRACKING**
  Created **Automated Scripts** to keep track of user activity and send helpful mails to help the users navigate their searches.
- **DECREASING SEARCH TIME**
  Wrote **efficient customised functions** to reduce the loading time of the site, thus increasing website traffic.
- **MYSQL**
  Wrote scripts to create automated tables for the new user and integrated it with the site to store user activity.
- **SEARCH RESULTS UI**
  Designed the UI of Main Search results page and the pop menu that pops up on clicking the results.

COURSE PROJECTS

FLIGHT PLANNER   *IIT DELHI*
Dijkstra's *algorithm under Professor Amit Kumar*   *April 2015*

- Created highly efficient flight planner using **Dijkstra's algorithm**.
- The algorithms allowed for knowing the cheapest path while keeping in mind the person's schedule.

QUEUING MODEL SIMULATION   *IIT DELHI*

Queuing Theory simulation under Professor Amit Kumar   *March2015*
- Created simulations (event driven) for calculating the average visiting time at a grocery shop.

MONTHLY EVENT PLANNER   *IIT DELHI*

Under Professor Parag Singla   *June 2014*
- Created an intelligent and interactive monthly task planner application in Python.

KINDERGARTEN SCHOOL*   *IIT DELHI*

Android Application under Professor Vinay Reibaro   *September2015*
- Creating Android Application to give elementary aid to kids of 3-4 years of age.
- Developing educational tutorial for stuff like alphabets and numerals and various user interactive exercises to test the knowledge of the child. Also tracking the performance using Shared preferences which is accessible to the instructor only.
- Using the knowledge of material design, Layout Views, Custom Adapter and loads of xml animations extensively to make the app as interesting as possible.

TECHNICAL SKILLS

- **Languages:** C/C++, Java, Python, R programming, PHP, Javascript, Matlab.

- **Web Technologies:** HTML, CSS, My SQL.

- **Software:** Android Studio, Fsl View, Photoshop, MS Excel, Sublime, Latex.

- **Libraries and Frameworks:** Handlebars.js, CodeIgnitor, Open Mp, Scrapy, Selenium.

- **Operating Systems:** Linux, Windows.

RELEVANT COURSES DONE

- Introduction to Computer Science
- Data Structures and Algorithms
- Modern Parallel Programming*
- Calculus
- Linear Algebra
- Experimental methods.
  *courses this semester

EXTRA-CURRICULAR ACTIVITIES

- Completed the following courses on coursera.com
  - **Algorithms2**
  - **Introduction to Big Data (doing)**
  - *Introduction to R programming*
  - *Machine Learning (Andrew Ng)*
  - *Computer Architecture*
  - *Android Programming*
  - *Internet of Technologies (doing)*
- **COMPETITIVE CODING**: Participate in online coding competitions on codechef.com and codeforces.com.
- **STREETPLAY:** Member of the hostel street play team. Bagged the first position in the inter hostel street play competition in 2013.