**SHIVESH GANJU**

MALE, 18 Years

**B.E.(Hons.)Computer Science** (2014-2018) & **Minors in Finance.**

**CGPA: 8.00**

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| **Examination** | **Year** | **School/Institution** | **Marks** |
| AISSCE (Class XII) | 2013 | Delhi Public School, Faridabad | 95.4% |
| AISCE (Class X) | 2011 | Delhi Public School, Faridabad | 10.0 |

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| **Electives Completed :**   * Organizational Psychology * Effective Public Speaking * Information Retrieval * Fundamentals of Finance and Accounting * Derivative Risk and Management |
| **INTERNSHIPS** |
| * Summer Intern at **Wadia Institute of Himalayan Geology**  from May 2016 to July 2016 * Worked as a **Research Intern** under the supervision of **Scientist Devajit Hazarika**. * Worked on the project Study of ***“Analysis of Local Earthquake Data for Shear Wave Splitting Study”*** using MATLAB. * Awarded a certificate on completion of the project signed by **The Director** of Wadia Institute of Himalayan Geology and **Dr Devajit Hazarika**. * Worked under Dr. Rahul Banerji (Head of Department, Computer Science) on the Project Lifeguard from September 2015 to March 2016 at BITS Pilani. |
| **ACADEMIC PROJECTS** |
| * ***PROJECT LIFEGUARD -*** This research project aims to protect human lives from those road accidents that result from inordinate levels of fatigue (physical/mental), poor physical fitness, drug-induced sleepiness, excessive stress etc. which could cause sharp degradation in the reflex level of the vehicular driver. Currently, it focuses on light vehicles and their drivers/occupants. However, the concept is easily extensible to large vehicles and their drivers/occupants as well. This research also draws from the works done by life scientists on human sensory system, brain and select externally measurable parameters (that can be measured, calibrated or accurately estimated without surgical intervention). * I worked on the Bluetooth automation path using linux as well as python. The python library used was Pybluez. * I also worked on the speech and audio synthesis part of the project. Various open source speech synthesis softwares were used such as Google TTS and audio stitching using python libraries such as pydub and pyAudio. * The latter part of the project focused on the machine learning techniques as well as sensor fusion techniques which involved study and research on topics such as particle filters and kalman filters. * **The Fall Detector** – The fall detector was used as an alert system which could be used in case of emergencies faced when someone aged experiences a sudden fall. * The components used were Texas Instrument’s IOT Kit which included the CC3200 Launchpad * Fall detection algorithm was used to detect sudden falls and as soon as a fall was detected by the system a signal was sent on the cloud which intern used to send a message to the concerned person * I worked on the designing of the circuit as well as coding on the Energia interface * **Analysis of Local Earthquake Data for Shear wave Splitting Study –** The data from the local earthquake was analyzed so as to calculate the shear wave splitting parameters which in turn were used to calculate the anisotropy of a particular region in this case Sutlej valley. * I used the MATLAB software in order to plot the contours and the graphs of the particle velocity of the P waves and the S waves. The contours were then used as parameters in a program called Anisomat to calculate the anisotropy. I used regression lines in order to plot the contours. * **Batch Weighing Machine –** The project was made using 8086 microprocessor and peripheral devices on proteas. As soon as the weight exceeded a certain limit, alarm would be raised and the system would get reset. |
| **ACADEMIC ACHIEVEMENTS AND AWARDS** |
| * Our project was selected as **one amongst the top 8** in the **Texas Instrument Internet of things Challenge** in APOGEE 2016. * Our project was selected as **one amongst the top 8** in the Problem Statement of **Schneider Electric’s IOT theme** in APOGEE Innovation challenge at APOGEE 2016. * Qualified the first round of **Microsoft’s Build the Shield Competition** in 2016. My team was amongst the top 25 amongst the 400 teams that participated. * Secured an **AIR 3190** in **IIT JEE 2014.** * Eligible for the **Inspire scholarship** by the CBSE in Class 12th. * Came first in the **Ramanujan Inter School Mathematics Competition** held by **Ramanujan society of Born Mathematicians** in 2012. * Received a **scholar medal** for excellent academic performance in school for **8 consecutive years.** * Received a cash scholarship of Rs 15,000 for coming in the top 10 students of the school in the Scholarship exam held in 2012 |
| **POSITIONS OF RESPONSIBILITY** |
| * **Head of Marketing**, TEDxBitsPilani. * Organized the first ever TEDx event in BITS Pilani in January 2016 having well renowned speakers like Mani Shankar. * I helped in bringing sponsors like **Luminous** and **Amul** for the event. * Core member of the **Web Development Team** in Embryo. * I helped in designing the main website of Embryo. * I helped in organizing **APOGEE Innovation Challenge** in 2015 and 2016 by inviting companies like **Schneider Electric** and **Luminous.** APOGEE Innovation Challenge is a kernel event in APOGEE. * Member of the **Anti-ragging** team in BITS Pilani. |
| **EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS** |
| * I was a part of the School Football Team. * I was the Vice Head boy of Delhi Public School Faridabad. * I was a part of the Social service club in my school. We helped by educating poor children and spreading awareness. |
| **SOFTWARE SKILLS** |
| * I have a good knowledge of the following languages * C * Python * Java * Javascript * JQuery * HTML * CSS * MATLAB * SQL * Microsoft Office * I am currently pursuing a certificated course of Machine Learning on Coursera |