Harshil R. Meena

2016 Summer Internship

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Academic Details

Bachelor of Technology, Computer Engineering : IIT-Delhi (2014 - Present) GPA : 7.60 (eq. 3.04)

DAV Public School, Kota (2014) 89.2%

Delhi Public School, Gandhinagar (2012) GPA : 9.40

Relevant Courses Done:

- **Completed** :

  Data Structures, Probability and Stochastic processes, Digital Logic for hardware design, Discrete Maths, Calculus, Linear algebra and Differential equations
- **Will be completed before internship** :

  Programming languages, Computer Architecture, Design Practices

Projects :

Course Projects :

Basic search engine : **IIT-Delhi**

Course Project under Prof. Amitabha Bagchi *September 2015 - October 2015*

- Created **inverted index** data structure in Java to facilitate **searching** in a search engine
- Made the searching process faster by storing and accessing the word entries in an **AVL** tree
- Implemented an independent Google like **Page-ranking** method which generated a universal relevance vector for all the web-pages

Text Classifier : **IIT-Delhi**

Course Project under Prof. Naveen Garg *July 2015 - August 2015*

- Using Naive-Bayes algorithm(along-with Laplace-Smoothing) implemented a text classifier
- The model yielded an accuracy of **93.6%**

Moodle Android Application : **IIT-Delhi**

Course Project under Prof. Vinay Ribeiro *February 2016 - March 2016*

- Implemented a front-end based Moodle application (a learning management system) based on a Web2Py-server
- Various API's were created for the app to interact with the server

Implemented a game on Google's App-Engine : **IIT-Delhi**

Course Project under Prof. Huzur Saran *July 2015 - August 2015*

- Made a Sudoku game in python consisting of a random game generator and a solver using backtracking
- Uploaded it upon Google App Engine's cloud hosting services

Independent Projects :

Hybrid Compression :

- Used LZW compression for string compression and later applied the Huffman compression on it's output
- The algorithm was able to compress an image files (in hexadecimal format) by 51.46%

Technical Skills/Strengths :

- **Programming languages :**
  - Extensive : Java, Python, C++
  - Intermediate : C, Haskell, VHDL, SML
- **Web Development :** HTML, CSS, HTML5, PHP, WebApp2, JavaScript
- **Platforms :** Windows, Linux
- **Languages :** English, Hindi
- **Others :** Android Studio, Google App Engine, Git, SQL, ARM assembly

Other interests :

Stock analysis :

- Got annualized returns of 379.58% on a stock market simulation based on actual historic data

- Have implemented many multi-threaded python scripts to automate decision strategies and some scripts on Quantopian

Position of Responsibility :

Team member, ACES-ACM (2014 - Present)
Team member of ACES-ACM - the official ACM student chapter of IIT-Delhi