

SWAPNIL AHUJA

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EDUCATION

University of Southern California

M.S. in Computer Science (Data Science), GPA: In Progress

Relevant Courses: Artificial Intelligence, Database Systems

Los Angeles, CA

Expected Graduation May 2018

Guru Gobind Singh Indraprastha University

B. Tech in Information Technology, GPA: 3.77/4.0

Delhi, India

Aug 2012-Jun 2016

TECHNICAL SKILLS

Languages:	Java, Python, R, C++, C#, MySQL, PHP, HTML, CSS
Tools:	Octave/MATLAB, XAMP Package, Visual Studio, Apache Spark, Apache Storm, Shiny Apps
Operating Systems:	Mac OS, Windows, Linux

EXPERIENCE

Defence Research and Development Organization

Delhi, India

Research Intern

Jun 2015-Jan 2016

- Reduced the workload by over 90% by implementing a Rule Based Extraction System to extract unrefined data from INSPEC Database using Text Mining.
- Implemented various features to enhance the present Knowledge Management System
- All implementations were done using Java and MySQL as Database.

Microsoft Technology Associate - Sheryanshi Consultancy Pvt. Ltd

Noida, India

Summer Trainee, Grade: A+

Jun 2014-Aug 2014

- Developed News Website using Asp.NET along with C#
- Certifications: Microsoft Certified Professional, Microsoft Technology Associate: Web Development

PROJECTS

- AI Agent on a PACMAN Game**
Designed and implemented Search-based A.I. Agent for eating all foods or going to goal position(s) in a maze, using various search methods: DFS, BFS, Uniform Cost Search, and A* Search (heuristics)
Implemented Multi-Agent Systems using various methods: MiniMax, MiniMax with Alpha-Beta Pruning, ExpectiMax.
- Sports Analytics**
Implemented a web extraction utility to create a data set that was further used to predict the result of a Cricket Match using Random Forest Algorithm
Calculated the winning probability of the football teams using a Generalized Linear Model (Poisson Distribution).
- IPURESLT.COM**
Position: Development Lead
Streamlined the process to generate merit lists, analyze each student's performance and calculating the Cumulative Performance Index
Page Views: 400,000(Google Analytics) around university result time
- Stock Recommendation System**
Applied SVM (Scikit learn) to implement a system that recommends stocks based on previous years' data (Source: Yahoo Finance and Quandl)
- Top Worldwide Hashtags**
Designed a Storm topology and new bolt that uses streaming joins to dynamically calculate Top-N Hashtags and display real-time tweets that contain trending Top Hashtags.

EXTRA-CURRICULAR ACTIVITIES & HONORS

- Certificate of Merit - Rank 10 in among 950 students in Third Semester
- Founder of Tech N Talks Group and lead to its establishment along with other five members
- MOOC's-Machine Learning (Stanford), R (Johns Hopkins University), Scalable Machine Learning (UC Berkeley)