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Somin Wadhwa

Contact Information

Undergraduate Student
Block 1, Computer Science & Engineering
Maharaja Agrasen Institute of Technology.
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Interests

Machine Learning, Data Analysis

Education

B.Tech in Computer Science & Engineering — July 2014 – present
Maharaja Agrasen Institute of Technology (Overall Percentile: **78.8%** after 4 semesters)
Guru Gobind Singh Indraprastha University, Delhi, India

High School: Bal Bharati Public School, Pitampura, Delhi — March 2012 – April 2014
All India Senior School Certificate Examination, CBSE (Percentile: **93.8%**)
Secondary School: Bal Bharati Public School, Pitampura, Delhi — March 2000 – April 2012
CBSE (GPA: **8.8**)

Experience

Summer Training (MOOC on Coursera)* — June, 2016 - September, 2016
Machine Learning by Stanford University
11 Weeks of training in Machine Learning(Supervised & Unsupervised) on Octave.

Technical Skills

Strongest Areas: Supervised Learning, Data Structures, Dynamic Programming
Languages: Python, C++
Tools & Frameworks: Matlab, LaTeX, NumPy & Pandas, MS Office Suite
Database Tools: Oracle, MySql, sqllite

Relevant Courses

Data Structures & Algorithms, Databases, Machine Learning, Automata Theory, Probability, Differential & Inferential Statistics, Software Engineering

Research Work

Somin Wadhwa, "Study of Random Numbers & their applications in computational physics using Monte-Carlo method",*XXVII IUPAP Conference on Computational Physics, IIT Guwahati*, December 2-5 2015 (Abstract)(Here)

Selected Projects

Radioactive-Decay Simulator
This project was done as a part of the paper written for the XXVII IUPAP CCP (2015) in which various Monte-Carlo simulations were obtained for the radioactive-decay phenomenon. This project in its initial stages was purely implemented in C++ and plots were obtained using a seperate spreadsheet software. Later studies suggested that the entire process can automated via a numerical-computation tool such as Scilab. It can further be implemented in Python with the relevant libraries (matplotlib, NumPy)

Web Crawler*
Some standard python scripts that use the beautifulSoup library to crawl through various websites related to major sports leagues and fetch real-time standings of the respective teams. This project was done primarily to fetch the league standings for National Basketball Association (NBA) but the functionality can be extended as well.

UdStudentData
Rudimentary data analysis of some student data obtained from www.udacity.com. Analysis was

solely done in python and features (analysed & plotted) variations in Time, Lessons Completed & Number of Days of student visits in a particular course. Entire analysis is based on three parameters Enrollments, Daily Engagements & Project Submissions.

Spam-Classifier*
A filter that is able to classify emails as spam or not spam with high accuracy. Entire project is based on **Support Vector Machines**. Full scale implementation of project involves pre-processing of email text and extraction of features from the same. This data is then used to train a SVM with linear kernel to generate the required parameters for classification. Currently working in Matlab.

**Ongoing Projects*
All the projects (including the above-mentioned) are/will be available on GitHub.

Other Achievements

- **Secretary**(2015-present) 'Association of Computing Machinery' at MAIT. (here)
- **Interned** at a national NGO 'Umeed - A drop of Hope' (NGO Reg: S/792/DIST.SOUTH/201) and jointly participated in Project- Knowledge for All (KFA).
- **Rotaractor** (2014-2015) Member of 'Rotaract Club of Delhi Akash' where I jointly organized several large scale events like 'CanSupport's Walk of Life (8th Feb 2015) - Fight against cancer.', 'Patrika - A paper recycling drive.'
- **Volunteer at Techsurge & Mridang** Annual technical & cultural fest of MAIT

Hobbies & Interests

Reading about Economics, Basketball, Watching Documentaries, Quora, HackerRank

References

Available upon request.