ADITYA SARVAIYA

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EDUCATION

MTech in Machine Learning and Intelligent Systems | *Indian Institute of Information Technology, Allahabad | May 2020*   **GPA: 9.26**
Courses: Machine Learning, Soft Computing, Convex Optimization, Cognition, Advance Data Structures, Programming Practices

B.E. in Information Technology | *L . D. College of Engineering, Ahmedabad | May 2018*   **GPA: 8.28**
Courses: Artificial Intelligence, Software Engineering, Big Data Analytics, Data Mining and Business Intelligence, Web Technologies
Data Structures, Algorithms, Computer Networks, Advanced Mathematics, Database Management System

SKILLS

- Programming Languages: Python(Proficient), C(Advance), C++(Proficient), Java(basic)
- Machine Learning and Artificial Intelligence: NLP, Neural Networks, Deep Learning, Genetic Algorithm
- Framework & Tools: FastAi, Tensorflow, Numpy, Scipy, Pandas, NLTK, Scikit Learn, Stanford Parser, OpenCV, Colab
- Cloud and Cluster Platforms: AWS(Basic), Ai Devcloud - Intel (Basic), Colfax Cluster (Basic)
- Cognitive Architectures: SOAR(Intermediate), ACTR(Intermediate) and CLARION(Basic)
- Web Scraping: BeautifulSoup, Selenium, PhantomJS

EXPERIENCE

Intel - Student Ambassador for Artificial Intelligence   **Aug 2017 – Present**
- Published 3 articles on Intel Developer Zone on Optimization Techniques, Natural Language Processing (NLP) and Deep Learning.
- Conducted 7 MeetUps and 2 conferences on Machine Learning and Artificial Intelligence in a span of 1.5 years.
- Got selected as top 2 per cent students across the world to be a Student Ambassador for research Ai and ML.
- Worked on Ai Devcloud and Colfax Cluster for better Ai development.

Dynamic Hub - Startup Engineer   **Oct 2016 – Jun 2017**
- Developed a network of more than 300 local Tech giants and corporate sector.
- For projects, I used flask, PHP and WordPress at the core with other web technologies like css and javascript.
- Served 6 major projects and 9 small projects.

PROJECTS

Automatic Question Generation using NLP (NLTK + StanfordNLP)   **Apr 2018 – Jun 2018**
- Selecting topically important sentences from text document & performing Gap Selection using Stanford Parser extracts Noun phrase (NP) & Adjective phrase (ADJP) from important sentences as candidate gaps.
- Utilized NLTK and Stanford parsers & grammar syntax logics for generating questions of fill in the blanks type.
- Question Classification was done on basis of pre-trained SVM classifier. Outputs report in PDF, HTML and email format as well.

Machine Learning Optimizers from scratch (Python)   **Feb 2019 – Feb 2019**
- Many optimizers namely Adaptive Moment Estimation (Adam), Root mean square propagation(RMSProp), Adaptive gradient (Adagrad), Nesterov Accelerated Gradient (NAG), Momentum, Mini-batch gradient descent, Stochastic gradient descent and Batch gradient descent were implemented and tested.
- Implementation from scratch using only numpy and pandas in python.

Terminal-File-explorer (C++)   **Oct 2018 – Oct 2018**
- A functional terminal based file explorer with a restricted feature set.
- Supported functions : ls, cd <path>, mkdir <dirname>, cat <filename>, vim <filename>, rm <filename>, clear, exit, help
- The project included a deep understanding of the file system and BTree with its implementation.
- Implemented disk structure by emulating Inode structure implementation on a single file as a hard disk.

ACHIEVEMENTS AND REWARDS

- Qualified semifinals and stood among top 5 per cent in Flipkart Grid Dare2Compete Challenge.
- Earned more than a Lakh rupees in 9 months with Dynamic Hub.
- Teaching Assistant for Data Structures subject at IIIT Allahabad.
- Stood among the top 2 per cent students in GATE exam 2018 (Paper code: CS) conducted by IIT Guwahati.
- Elected as a President of Socio-Cultural club "Vox-Populi". Won "Best Club of the Year" amongst 16 working clubs.
- Data Analyst and Developer Internship at Silverwing Technologies for 2 years.
- Solved more than 300 algorithmic problems on platforms like SPOJ, Leetcode and Geeksforgeeks.
- Central Coordinator of the orientation program of LD College of Engineering for 3 consecutive years (2015-16-17).