Aditya Jain

https://adityajain.me

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SKILLS

PROGRAMMING
Python | IPython
Java | Android Programming
C | C++
HTML | JavaScript | CSS
Node.js | Express.js
SQL | MongoDB

DATA SCIENCE | ML
Descriptive Statistics
Inferential Statistics
Regression Algorithms
Classification Algorithms
Clustering Techniques
Ensemble Techniques
Neural Networks | Deep learning
Convolutional Neural Networks
Sequence Models
Natural Language Processing
Reinforcement Learning

CS CONCEPTS
Operating System Concepts
Data Structures and Algorithms
Cloud Computing
DataBase Management Systems
Data Mining
Design and analysis of algorithms
Business Analytics & Intelligence
High Performance Computing
Software Engineering

SOFTWARES AND TOOLS
Pandas | Numpy
Matplotlib | Seaborn
Scikit-Learn
Tensorflow | Keras | Pytorch
MS Excel | Tableau (Basics)
Linux | Windows
Git and GitHub

EDUCATION

Bachelor of Engineering (Computer Engineering)
Maharashtra Institute of Technology, Pune

Graduation : July, 2018 | Aggregate : **74% (First Class with Distinction)**

H.S.C. (12th)
Central Board of Secondary Education

Completion : May, 2014 | Aggregate : **89.2%**

EXPERIENCE

Associate Data Scientist | Cognizant
Sep 2018 - Current | Bengaluru, Karnataka, India

Worked on **Data Analysis and Predictive Modelling** for a **Healthcare Client** to solve different use-cases such as HOS Mental and Physical Health, HOS Bladder Control and Churn Prediction.

Intern | Heelium Sports Pvt. Ltd.
Dec 2016 - Dec 2017 | Pune, Maharashtra, India

Worked on various assignments using **mean stack technologies** like node.js, MongoDB, express.js, etc. Also worked on analytics of sales of products, user profiles during this period.

CERTIFICATIONS

Deep Learning Specialization | DeepLearning.ai
Completion : June 2019 | Credential : AMS3W8UNB6PW

This specialization helped me learn various **basic and advanced concepts of deep learning** such as hyperparameter tuning, regularization, optimization methods, CNNs, Sequence Models, etc.

Reinforcement Learning Specialization | University of Alberta
Completion : October 2019

This course of RL on Coursera helped me learn various concepts like foundations of RL, policy/value iteration, Monte Carlo Learning, Temporal Difference Learning, Deep Q Learning and more.

ACHIEVEMENTS
- First runner up in Smart India Hackathon 2017 among 300 teams, here we had developed an android app to perform biometric authentication of a student during an exam.
- Finalist in Infosys Techzooka Hackathon 2016, we as a team of 3 students had developed an android application to show discounts on the nearby grocery stores.
- Ranked in top 3000 among people from around the world in HackerRank "**Algorithms**" section. Also, I have a gold badge on SQL and Algorithms on Hackerrank.

TESTS

GRE : 324
Verbal : 157
Quantitative : 167
AWA : 4

TOEFL : 110
Reading: 28
Listening: 28
Speaking: 27
Writing: 27

LINKS

Github:// adityajn105
Projects Page://Link
Blogs Page://Link
LinkedIn:// adityajn105
Twitter:// @adityajn105
Kaggle:// adityajn105

PERSONAL DETAILS

NAME
Aditya Jain

DATE OF BIRTH
10/05/1996

LANGUAGES
English
Hindi (Native)

NATIONALITY
Indian

PROJECTS

Maintaining Physical & Mental Health using Health Outcome Survey | Cognizant
Used **data analytics & predictive modeling** on HOS Survey, demographics, claims data, prescription data to predict the members at the **risk of mental and physical health decline.**

Churn Prediction/Retention Modelling | Cognizant
Used various **statistical & machine learning techniques** to predict members who are likely to get churned and targeting these members using various outreach strategies to prevent churn.

Flappy Bird Reinforcement Learning Agent | Link
Flappy Bird Game trained on a **Double Dueling Deep Q Network** with Prioritized Experienc Replay implemented using Pytorch.

Kinship Detection using Siamese Network | Link
Implemented **Siamese Network** using Keras to detect kinship among two persons with faces given. Used **VGG Facenet** to generate face embeddings.

Host-Based Intrusion Detection System | Final Year Project
We had developed a HIDS as a **B.E. Project** which is used to prevent the host system from being compromised by intruders.

THESIS | BLOGS

Convolutional NN for Autonomous Robot Navigation | Thesis | Unpublished
Presented my junior year thesis on CNN architectures which can be utilized for autonomous robot navigation. Different architectures presented include YOLO, UNets, ResNet, etc which give best results when used together.

Attention Mechanism For Machine Translation | Blog | Link
After completing DL Specialization, I had written a blog on Attention mechanism and its working so that it could be helpful for others; also build a **demo model for date translation.**

Policy Optimization in Known MDP Environment | Blog | Link
I had written a blog on Policy Optimization techniques such as **Value Iteration** and **Policy Iteration** which doing a Reinforcement Learning Course of David Silver.

Monte Carlo and Temporal Difference Learning | Blog | Link
This is a blog for policy optimization techniques but in **unknown MDP environment**.

Deep Q Learning and Improvements in DQN | Blog | Link
Here I have written about building a **flappy bird game RL agent** using Deep Q learning.

EXTRA-CURRICULAR

- **Organizer** of the national level event "Linuxication" for years 2016,2017 and 2018.
- Member of **MCUG (MIT computer users group)** in 2016, 2017, 2018 which conducted various technical events and sessions throughout the year.
- Member of MCUG **newsletter team** in college for the year 2016.
- **Volunteer for "Animal Care"** and **"Save the Environment"** campaign for Cognizant Outreach Program in 2019.
- **"Joint Event Coordinator"** for a colleges' technical Event "Texephyr" in the year 2017, where I helped in organizing some coding competitions.