

Aditya Jain

<https://adityajain.me>

adityajn105@gmail.com | +91 89891 73580 | adityajn105 (skype)

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%

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. Some major use-cases are 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 android for connection web backend to android app.

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, we had developed an android app to perform biometric authentication of a student appearing for an exam. This system was more robust, fast and secure than the traditional system used.
- Finalist in Infosys Techzooka Hackathon 2016, we as a team of 3 students had developed an android application to show details of nearby grocery stores and offers based on **user location**, we have used **firebase** as a database.
- 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 | 2019

Used **data analytics & predictive modelling** 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 | 2019

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](#) | 2019

Flappy Bird Game trained on a **Double Dueling Deep Q Network** with Prioritized Experience Replay implemented using Pytorch.

Kinship Detection using Siamese Network | [Link](#) | 2019

Implemented **Siamese Network** using Keras to detect kinship among two persons with faces given. Used **VGGFace** to generate face embeddings.

Host Based Intrusion Detection System | Final Year Project | 2018

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 | 2017 | 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 | 2019 | 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 | 2018 | 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 | 2019 | Blog | [Link](#)

This is a blog for policy optimization techniques but in **unknown MDP environment**.

Deep Q Learning and Improvements in DQN | 2019 | Blog | [Link](#)

Here I have written about building a **flappy bird game RL agent** using Deep Q learning.

ACTIVITIES

- **Organizer** of 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 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.