

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
CNN | Sequence Models
Natural Language Processing
Reinforcement Learning

CS Concepts

Operating System Concepts
Data Structures and Algorithms
Cloud Computing
DataBase Management Systems
Data Mining
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 : 74.4%

H.S.C. (12th)

Central Board of Secondary Education

Completion : May, 2014 | Aggregate : 89.2%

CERTIFICATION

Deep Learning Specialization | Coursera

Completion : June 2019 | Credential : [AMS3W8UNB6PW](#)

- This helped me learn the various advanced topics of Deep Learning, Hyperparameter Tuning, Regularization, Optimization Techniques, Convolutional NN, Sequence Models and more.

EXPERIENCE

Associate Data Scientist | Cognizant

Sep 2018 - Current | Bengaluru, Karnataka, India

- Performed **Data Analysis and Predictive Modelling** for identifying Aetna medicare contracts' members at risk.
- Identify members for reaching out to improve Aetna medicare contract Star Ratings.

Intern | Heelium Sports Pvt. Ltd.

Dec 2016 - Dec 2017 | Pune, Maharashtra, India

- Worked as a **mean stack web developer** to assist in building company's website.
- Worked on various mean stack technologies like **node.js**, **mongodb**, **express.js** etc

Intern | Aviate Softwares

Aug 2016 - Sept 2016 | Pune, Maharashtra, India

- Worked with **Retrofit** for android to create an http client and to consume REST api.

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ACHIEVEMENTS

- First runner up in Smart India Hackathon 2017 where students from all around the India participated in the event. We had developed an android app to perform authentication of a student appearing for an exam using **biometric from Aadhaar Database**. 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 5000 among people from around the world in HackerRank “**Algorithms**” section. Also I have a gold badge on SQL and Algorithms on Hackerrank.

PROJECTS

- **Maintaining Physical and Mental Health using Health Outcome Survey | Cognizant | 2019:** Used **data analytics and predictive modelling** on HOS Survey, demographics, claims data, prescription data etc to predict the members at the **risk of mental and physical health decline**. And also performed analysis on best outreach method to target these members to improve their health and also to improve CMS star ratings of healthcare contracts.
- **One Shot Face Recognition | Link | 2019:** Implemented Face Recognition with Siamese Network using Keras. Siamese Network can be used for one shot learning which do not require extensive training samples for image recognition.
- **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.
- **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. Project relies heavily on the use of **security concepts, machine learning and operating system concepts**.

BLOGS | THESIS

- **Convolutional Neural Network for Autonomous Robot Navigation | 2017 | Thesis | Unpublished:** I have presented my junior year seminar report on Convolutional Neural network which can be used for robot navigation. I have firstly discussed various other models eg SVM, which are promising and later discussed about ConvNets and how **ConvNet prove to be best solution** for autonomous navigation problem. ConvNets excels at **image classification problem** and thus it excels in object identification.
- **Attention Mechanism For Machine Translation | 2019 | Blog | Link:** After completing Deep Learning Specialization Course, I decided to write a blog on Attention mechanism and its working so that it could be helpful for others and 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 again a blog for policy optimization techniques but in unknown MDP environment, this is also inspired from RL course of David Silver and here I have written about **Monte Carlo Methods, On-policy Sarsa and Off-policy Q-Learning**.

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TESTS

GRE (2019) : 324 (Verbal : 157, Quant : 167, AWA : 4)

TOEFL (2019) : 110 (Reading: 28, Listening: 28,
Speaking: 27, Writing: 27)

PERSONAL DETAILS

Name : Aditya Jain

Date of Birth : 10/05/1996

Languages : English, Hindi

LINKS

Github:// [adityajn105](#)

Linkedin:// [adityajn105](#)

Twitter:// [@adityajn105](#)

Kaggle:// [adityajn105](#)

Projects page://[Link](#)

Blogs page://[Link](#)