

Aditya Jain

<https://adityajain.me>

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

AREAS OF INTEREST

Data Science
Machine Learning
Computer Vision
Sequence Modeling
Reinforcement Learning
Deep Learning

SKILLS

PROGRAMMING

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

DATA SCIENCE | ML

Statistical Modelling
Regression Algorithms
Classification Algorithms
Clustering Techniques
Ensemble Techniques
Neural Networks | Deep learning
Basics of Reinforcement Learning

CS CONCEPTS

Operating System Concepts
Data Structures and Algorithms
Object-Oriented Programming
Cloud Computing
Database Management Systems
Data Mining
Design and analysis of algorithms
Business Analytics & Intelligence
Software Engineering

SOFTWARE AND TOOLS

Pandas | Numpy
Matplotlib | Seaborn
Scikit-Learn
Tensorflow | Keras
MS Excel | Tableau (Basics)
Linux | Windows
Git and GitHub
Docker and Swarm

EDUCATION

Bachelor of Engineering (Computer Engineering)

Maharashtra Institute of Technology, Pune | University of Pune

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

H.S.C. (12th Grade)

Central Board of Secondary Education

Completion : May 2013 | Aggregate : 89.2%

EXPERIENCE

Associate Data Scientist | Cognizant

Sep 2018 - Current | Bengaluru, Karnataka, India

Developing machine learning models that assist customers' outreach programs by targeting the right and influential population to improve the star-ratings of MEDICARE plans by addressing specific measures. Worked on different technologies including Python, numpy, pandas, scikit-learn, Keras, SQL, etc.

Intern | Heelium Sports Pvt. Ltd.

March 2017 - June 2017 | Pune, Maharashtra, India

Worked and completed various assignments using MEAN stack technologies like Node.js, MongoDB, Express.js, etc. Alongside worked on analytics of sales of products, user profiles during this period.

ACHIEVEMENTS

- **First runner up in Smart India Hackathon 2017** among 300 teams. Developed a fast, reliable and secure system to perform biometric authentication using the fingerprint of a student during an exam.
- The **finalist (among top 10) in Infosys Techzooka Hackathon 2016** among 100 teams. Developed an android application to show discounts on the nearby grocery stores for user convenience.

PROJECTS

Maintaining Physical & Mental Health using Health Outcome Survey | Cognizant

- Used data analytics & predictive modeling to train machine learning models on HOS Survey, claims data, prescriptions, demographics to understand important factors leading to a mental and physical decline in the Medicare population.
- Used tree-based ensemble technique to build models that can predict the propensity of physical and mental health decline in a member. Also, used clustering to identify the right outreach strategy.
- **Tools Used:** Python, SciKit-Learn, Numpy, Pandas, IBM DB2, etc.

Bladder Control in Medicare Population | Cognizant

- Used predictive modeling to build ML & statistical models that can predict the propensity of a member having Urinary Incontinence and also to identify outreach channels for those members.
- Worked on demographics with healthcare data such as prescription data, claims data, etc to train a tree-based bagging model that can calculate the propensity for a member having bladder issues.
- **Tools Used:** Python, Scikit-Learn, Pandas, Numpy, IBM DB2, Keras, etc.

Fall Risk prediction using Health Outcome Survey | Cognizant

- Used Health Outcome Survey's responses to various cohort members to outreach the medicare population having fall and balance problems.
- Worked on past clinical data, prescription data, etc to come up with a model to predict people likely to have fall or balance issues.
- **Tools Used:** Python, Scikit-Learn, Pandas, Numpy, IBM DB2, Keras, etc.

LINKS

Github: [// adityajn105](#)

Personal Projects: [//Link](#)

All Blogs: [//Link](#)

LinkedIn: [// adityajn105](#)

Codeforces: [//adityajn105](#)

DockerHub: [//adityajn105](#)

PERSONAL DETAILS

NAME

Aditya Jain

DATE OF BIRTH

10 May 1996

LANGUAGES

English

Hindi (Native)

Kinship detection using faces in the Wild | Kaggle Challenge | [Link](#)

- Used facial images of different family members, we have to come up with a model to identify where they are kin to each other or not. I have used transfer learning with VGG-Facenet to generate face embeddings, and then trained a network with Siamese architecture to find kinship probability. My final Submission predicted with 79.2 accuracy.
- **Tools Used:** numpy, Keras, matplotlib, opencv.

THESIS | BLOGS

Convolutional NN for Autonomous Robot Navigation | Junior Year Thesis

Presented my junior year thesis on CNN architectures such as YOLO, U-Nets, ResNet, etc which can be utilized for **autonomous robot navigation tasks**. Also compared other algorithms like SVM with them.

CERTIFICATIONS

Deep Learning Specialization | DeepLearning.ai

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

Completed topics on fundamentals of neural networks and deep learning, hyperparameter tuning, regularization, optimization methods, convolution neural networks, sequence models, etc.

Core Java | Seed Infotech, Pune

Completed topics on fundamentals of object-oriented programming languages, inheritance in java,

EXTRA-CURRICULAR

- **Organizer and lecturer** in a national level event called “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 the MCUG **newsletter team** in college for the year 2016.
- **Volunteer for “Animal Care” & “Save the Environment”** campaign for Cognizant Outreach Program.
- **“Joint Event Coordinator”** for a colleges’ technical Event “Texephyr” in the year 2017, where I helped in organizing some coding competitions.