Aditya Jain

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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 AUC.
- Tools Used: numpy, Keras, matplotlib, OpenCV.

TGS salt identification | Kaggle Challenge | Link

- This is an Image Segmentation problem. Seismic images and their corresponding masks where salt sediment are present were given. The challenge was to predict sediment mask from seismic images. I used UNet with pre-trained VGG16 as an encoder and Decoder from scratch. I also applied image augmentation techniques to train a model that had given me 67.6 IOU on the final submission.
- Tools Used: numpy, Keras, matplotlib, OpenCV.

THESIS | WRITINGS

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.