

Siddharth Jain

Bhopal

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INTRODUCTION

A highly analytical individual with a solid apt for learning and collaborative skills. Has sound mathematical understanding of machine learning, knowledge of building data models, and applying machine learning and deep learning algorithms. Looking to work in the field of data science and machine learning, deliver insights and implement action-oriented solutions to complex business problems.

EDUCATION

B. Tech Electronics & Communication Engineering Lakshmi Narain College of Technology	2018-08 – Current CGPA: 8.93
Higher Secondary (XII) Gyan Ganga International Academy	2017-04 - 2018-03 Percentage: 87%
Secondary (X) The Sanskaar Valley School	2015-04 - 2016-03 Percentage: 93%

PROJECTS

Microsoft Malware Detection(<https://github.com/siddharth-jain-08/Microsoft-Malware-Detection>)

- The problem statement was to build a robust multi-class classification model that can accurately classify which class a malware belongs to.
- Processed a large amount of data containing .asm and .byte files. Did extensive feature engineering for extracting valuable features from these files(n-grams, image features, etc.) which helped in modeling and reducing the log-loss significantly.

Facebook Friend Recommendation(<https://github.com/siddharth-jain-08/Facebook-Friend-Recommendation>)

- Problem statement was given a directed social graph; we must predict missing links to recommend friends/connections.
- Used Networkx library to study large complex networks represented in form of graphs with nodes and edges.
- Performed exploratory data analysis and explored a lot of graph-related features like no of followers, is he followed back, page rank, Katz score, Adar index, some SVD features, of adj matrix, some weight features, etc. and trained ml model based on these features to predict link.

Image Segmentation(https://github.com/siddharth-jain-08/image_segmentation)

- Used Indian Driving Dataset (IDD), which is a collection of autonomous driving annotated street-level images captured on Indian roads for image segmentation tasks.
- Implemented CANet architecture using TensorFlow and Keras (achieved IOU score >0.7).
- Trained Unet model imported from segmentation models library(achieved IOU score >0.7).
- Used dice loss and IOU score as metrics for evaluating the model performance.

SKILLS, INTERESTS

Core Skills: Python, SQL, Probability& Statistics, Data Analysis, Machine Learning, Recommender Systems, Image Segmentation, NLP, Sequence to sequence models(LSTM, encoder-decoder).

Tools & Libraries: NumPy, Pandas, TensorFlow, Keras, Matplotlib

Certifications & Training: Python(Internshala), Applied Machine Learning(Applied Roots), Data Analytics & Visualization(The Spark Foundation).