

HIMANSHU GULLAIYA

ASPIRING DATA SCIENTIST

PROJECTS

Computer Vision Projects

- Python Apps such as Air Mouse, Real-time Face Recognition, OCR, Object Tracking, Motion Detection, Emotion Recognition and Many More.

Fraud Detector Using Hybrid Model

- Developed a Fraud Application Detector using Self Organising Maps (SOMs) & ANNs by doing segregation of Outlying Neurons.

NLP Projects

- Implemented Text Embeddings on semantic Analysis, Speech Recognition Python App using API, Caption Generation, Research on Machine Translation.

Self Made Artifical Neural Network Library

- Developed an A.N.N from Scratch implementing Actual Algorithms. Further Comparing it with Keras's Network, I got accuracies of 82.5 % & 85 % respectively on kaggle's Bank Employees churn Dataset.

Advanced Machine Learning Visualization

- Comparison of various classification models such as Random Forests, SVMs, XGboost ANNs.
- Visualization of Live Data on Matplotlib, Tableau, Building Heat Maps etc.

Image Classification

- Using CNN designed a 10 Classes Image Classifier & further Using Hyper-parameter Tuning Obtained Maximum Possible Accuracy.

Game Bot using Deep Reinforcement Learning

- Using Image Processing & Deep Q-Learning with Policy gradients on Pytorch, designed bots of various OpenAI Gym environments.

WORK EXPERIENCE

Product Developer at IEEE MSIT

Sept - Oct 2019

Library Automation System (IOT)

- Developed a Scalable product to Automate College's Library's Day to Day tasks including Bio-metric Authentication on Entry, Daily Logs with SMS & EMAILs, Auto Book Issue & Return using RF-IDs, Anti-Theft System implemented on Raspberry Pi 3B and backend purely based on Python.
- Further Created a Cloud Database (Firebase) & a GUI Records Retrieval Application for Management in Python.

Machine Learning Research Intern

July - August 2019

IIIT Hyderabad

- Researched at Anusaaraka Lab
- Neural Machine Translation for English to Hindi Pair.

COURSES & CERTIFICATIONS

Udacity Intel Edge AI Program

Coding Blocks - Machine Learning

Coursera - Reinforcement Learning

 <https://github.com/himanshugullaiya>  <https://www.linkedin.com/in/himanshugullaiya>



SUMMARY

Third Year CSE Under Grad with a good Exposure of AI & Data Science, out to solve real life problems with the power of AI. A good hand in Data Structures & Algorithms, Statistics & Mathematics and a Zeal to learn more.

EDUCATION

2017-2021

Maharaja Surajmal Institute of Technology, Delhi

BTECH: Computer Science

GPA: 8.8

SKILLSET

Python, C++, HTML 5.0, CSS

• **DEVELOPMENT SKILLS**
Visualization Tools
NLP Technology Algorithms (Keras, Pytorch, Tensorflow 2.0)
(Un)Supervised Deep Learning
Computer Vision
Reinforcement Learning
Raspberry Pi
Firebase
Photoshop

• **COMPETITIVE CODING**
Active Problem Solver on Codechef & Leetcode

• **TOOLS**

Intel Edge VINO Toolkit, Google APIs, Jupyter notebook, Clion, pycharm, orange, AWS, Firebase, Github, Photoshop

CONTACT



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