Chinmay Rane

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LINKS

Github:// **Chinmayrane16**
LinkedIn:// **fuzzywizard**
Kaggle:// **fuzzywizard**
Twitter:// **@chinmayrane16**
Hackerrank:// **fuzzy_wizard**

EDUCATION

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY

(B.Tech + M.Tech) in IT
May 2021 | Gwalior, M.P.
Cum. GPA: **8.72 / 10.0**
Major GPA: **9.86 / 10.0**

SR. SECONDARY

Pace Junior Science College
May 2016| Mumbai, Maharashtra
PCM, Percentage - 92%

ACHIEVEMENTS

Intern Acceptance - Caen, France
Snackdown Representative - Codechef
Ranked 1st in contest - Coding Blocks
Ranked 1st / 103 students - 8th Semester

SKILLS

Primary
Machine Learning • Deep Learning • Computer Vision • Natural Language Processing • Data Visualization • Data Structures • Statistical Data Analysis • System Analysis & Design

Programming Languages
Python • C++ • Java

Familiar
Android • .NET • MySQL • SPSS

Api & Libraries
PyTorch • Keras • Pandas • Numpy • Matplotlib • OpenCV

COURSEWORK

Image Processing
Artificial Intelligence
Probability and Statistics
Object Oriented Programming
Operating Systems
Research Methodology
Digital Signal Processing

EXPERIENCE

KAGGLE | Kaggle Expert

Dec 18 - Present

- Global Rank of **542** (best 277) out of 107,342 users (Top 1%).
- Bagged **6** medals - 2 silver and 4 bronze.

VAIDIK TECHNOLOGIES | NLP Intern

Jun 2019 – Aug 2019

- Built Depression Chatbot which regulate moods & eliminate distorted thinking.
- Employed Seq2Seq architecture with Attention mechanism.
- Predicted user sentiments & recommended personalized content on dashboard

AURONIA | R & D Intern on Smart IOT Device FWP-F110

May 2018 - Jul 2018

- Worked on recognizing Handwritten Data from an IOT device using OCR.
- Developed Mobile & Desktop platforms for interacting with the IOT device.

KEY PROJECTS

GAN BASED ENHANCED CNN PERFORMANCE IN PROTEIN CLASSIFICATION | B.Tech Thesis Project

- Addressed low contrast by using Image Enhancement algos HE, CLAHE.
- Designed self-laid CNN architecture using genetic algorithm.
- Demonstrated use of GAN's for synthetic data augmentation which boost macro F1 by 2.70% and micro F1 by 2.64%.
- Improved the metric from 0.483 to **0.562** (Winner's Score - 0.593).

DEEP AE FOR COLLABORATIVE FILTERING | Self-Project

- Implemented **2nd best** paper by NVIDIA on Rec. Systems in PyTorch.
- Trained overcomplete autoencoder with novel iterative output re-feeding algorithm to overcome the sparseness in the results.
- Achieved lowest RMSE of **0.5567** on Movielens 100K dataset.

RECONNET | Self-Project

- Reproduced the CVPR paper which non-iteratively reconstructs images from Compressively Sensed Measurements.
- Proposed algo is computationally **inexpensive** & suitable for resource-constrained environment.
- Obtained PSNR: **27.41 dB** using an extremely low sensing rate of 0.25.

REPRESENTATION LEARNING ON GRAPH NN | Self-Project

- Emulated the inductive GraphSAGE algorithm to generate unsupervised node embeddings.
- Performed convolution on graph network for node classification.

PUBLICATIONS

- "Attention Fusion Based Approach to Ensemble the Predictions of CNNs for Lymph Node Metastases Detection". Status: In progress
- "Generative Adversarial Network based Synthetic Image Augmentation for Enhanced Convolutional Neural Network Performance in Protein Classification". **23rd IEEE ICSEC 2019**. Status: Accepted