Ashwani Rathee

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SCHOLASTIC AND CO-CURRICULAR ACHIEVEMENTS

- Top 5 percent(1024 teams) in Research Competition-Trends NeuroImaging
- Top Contributor(Project-Multimodal Emotion Recognition) in PSOC organised by UIET,Panjab University

PROJECTS

SinFork | *Python,Librosa,Essentia*   October 2020
- Implemented a simple mp3 player using Tkinter which could play,stop and pause
- Implemented various audio feature extraction algorithms like spectrograms,chromatograms,spectral features,etc in TKinter app for graphical visualization

GPT-2 Twitter Bot | *Python*   August 2020 – November 2020
- Developed a twitter bot which used GPT2 to generate tweets
- Implemented automatic retweet,like,follow,trend finding and searching hashtags
- Implemented details fetch of user like username,location,no. of tweet etc with just user's id
- FineTuned 124M and 355M GPT2 models with 500k quote dataset and generated samples for 4 different types of finetuning data

Epidemic Simulator | *HTML,CSS,JS,bootstrap*   April 2020 – May 2020
- Implemented SIR and SEIR model-Mentored by Asst. Prof. Veenu Mangat
- Documented the details behind the SIR,SEIR and SIS models and epidemiology in general
- Developed COVID live tracker using covid19 api with which tracked total cases,active cases,recovered cases,deceased cases and vacine tracker.

Multimodal Emotion Recognition | *Python*   July 2020 – September 2020
- Implemented a CNN model for emotion recognition using MFCCs,Spectrograms,etc-Mentored by Ankur Bhatia(senior undergrad)
- Implemented TSNE,PCA on RAVDESS,TESS Datasets for 7 different emotions and multiple age groups

EDUCATION

Panjab University   *Chandigarh*
Bachelor of Engineering in Information Technology,CGPA-8.04   *Aug. 2019 – Aug. 2023*

SGGS Collegiate Public School   *Chandigarh*
Class 12th,CBSE-86.5 percent   *May 2017 – May 2019*

DAV Public School   *Chandigarh*
Class 10th,CBSE-CGPA-10.0   *April 2015-May 2017*

VOLUNTEER EXPERIENCE

NeurIPS 2020 volunteer   *December 2020*
- Helped with the workshop: Machine Learning with molecules
- Helped in redirecting the questions to live feed and trying to help people the dicord with conference-related questions

ISMIR 2020 volunteer   *October 2020*
- Helped in organising the opening ceremony with over 400 particiapnts and NLP4MUSA workshop
- Helped people with general queries at helpdesk regarding poster presentations,workshops,tutorials,general issues.

Julia   *May 2020 – till now*
- Helped in implementing sciml.ai website using Franklin.jl and JuliaMusic website for JuliaMusic
- Created over 10 Demos for JuliaImages which included demos for spatial transformations,histograms,etc
- Helped in restoring functionality to MusicProcessing.jl for Julia 1.0x

TECHNICAL SKILLS

Languages: Julia, Python, C/C++,HTML/CSS
Developer Tools: Git, Sublime,Pluto.jl
Libraries:Flux.jl,Images.jl,ImageCore.jl,pandas, NumPy, Matplotlib