

Harman Singh Jolly

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EDUCATION

Guru Gobind Singh Indraprastha University
Bachelor Of Technology - Information Technology
CGPA = 8.3/10 (2016-2020)

SKILLS

Languages - C++, Python, Ruby, SQL

Technologies - HTML/CSS, Ruby on Rails, Express, Jekyll

Libraries & Frameworks - Numpy, Pandas, Matplotlib, Seaborn, Scikit-Learn

ACHIEVEMENTS

- 2019 **Best use of Cloud Technology**, UNESCO Fossasia Hack
- 2019 **OpenTech Nights Winner**, Sponsored trip to Singapore
- 2019 **Received Full Scholarship**, Facebook Hackathon (F8)
- 2018 **Global Bonus Round & Regional Level Winner**, Facebook Developer Community Challenge
- 2018 **Invitation for HackMIT**, Annual Hackathon at MIT
- 2018 **Finalist**, GirlScript Summer of Code

PROJECTS

Bird-Call Classification

- Worked on the complete pre-processing of raw audio data by **denoising, splitting into chunks and followed by data augmentation on the basis of pitch and time.**
- Further used a CNN model to classify various bird species using their feature extraction based on mel and mfcc values.

Prediction of Autism Spectrum Disorder

- Developed a tool to predict the **presence of Autism Spectrum Disorder** as there are only a few reliable indicators which are behavioral based.
- Used ANN and CNN to train with the dataset and predict the presence of Autism Spectrum Disorder with the high efficiency and accuracy of 85%

DonorFu

- This project won **\$17500 from FB Dev Community Challenge**, is a messenger bot to bridge the gap between potential donors with blood requester's.
- It can also take calls over phone calls to connect potential donors with blood requesters.

Sociogram

- It is a social media web-application platform made for sharing images and posts. **Users can like, comment and share their pictures with others.** Uses Ruby on Rails at the backend and Bootstrap designing for frontend.

EXPERIENCE

Data Science Intern Jan - July 2021

Sabudh Foundation

- Worked on bird-call/song analysis for the classification of various bird species by developing a CNN model on the Xeno-Canto dataset.
- Performed exploratory data analysis, pre-processing of raw audio data, audio denoising and data augmentation.

Research Intern

May - Aug 2020

IIIT Allahabad

- Worked on a classification and prediction of Autism Spectrum Disorder using artificial neural networks.
- Further, implemented a model that uses CNN for the same with 85% accuracy.
- Also, worked on finding the moment of an object in a binarized image.

Web Developer Mentor

May - Aug 2020

Google Summer of Code @ DIAL

- Improved the Spam management dashboard and made the user interface much more refined. Becomes easier for moderators to approve or mark some posts as spam.(publiclab.org/spam)
- Reviewed pull requests, moderated rules revisions, & aided GSOC students with their proposals along with finding old inactive accounts/spam to remove them for better automatic way of spam detection.

Mentor

May - Aug 2019

Google Summer of Code @ PublicLab

- Worked specifically with the upgradation of MapKnitter's Rails version from 3.2 to the latest stable version.
- Reviewed various pull requests of GSOC students with the completion of their proposals in order to meet the demands of the organisation.

Open Source Developer

Oct 2018 - Jan 2019

Fossasia

- Contributed to a FOSSASIA project, Open Event Server which is a python based REST API server built using Flask.
- Fixed bugs, built APIs and wrote scripts for automatic deployment.

EXTRA CURRICULAR ACTIVITIES

Core Member, Mozilla Campus Clubs 2018-19

- Helped in designing the 3D map of the college for Virtual Reality and conceptualizing the idea for EventInsta, centralized event notification system campus which is being further developed by the members as a college product.