Ramanpreet Kaur

toorraman1999@gmail.com | linkedin.com/in/ramanpreet-kaur | github.com/ramanpreet-kaur |

Education

Thapar Institute of Engineering and Technology India
Bachelor of Engineering in Electronics and Computer Engineering, CGPA: 9.73/10.00 *July 2017 – June 2021*

CBSE Board (S.S.Mota Singh Model School, New Delhi) India
XII(Senior Secondary) Science 2017, percentage: 91.16 *April 2016 – March 2017*

Technical Skills

Data Structures and Algorithms, Object Oriented Programming, Machine Learning, Database Management System, Web Development, App Development
Languages: C/C++, Java, Python, SQL, HTML, CSS
Software/Developer Tools: Git, Jupyter Notebook, Google Colab, PyCharm, Android Studio, Matlab

WORK EXPERIENCE

Apple Inc. | *Software Developer Engineer Intern* January 2021 – Present
- Software Engineering Intern in IS&T team as a part of 6-month internship programme.

JPMorgan Chase & Co. | *Software Developer Engineer Intern* June 2020 – July 2020
- Summer Intern as a part of the Software Engineering Internship pro- gramme at J.P.Morgan & Chase.

{S30} | *Instructor of Data Structures and Algorithms* June 2019 – November 2019
- Responsible for taking sessions of Masters' students for Data Structures and Algorithms questions.
- Responsible for grading and reviewing the Questions attempted by stu- dents, clarifying their doubts and taking extra sessions.

Projects

COVID-19 Rules Checker | *Web Development, OpenCV, Image Processing, Flask, Python, OpenCV, Keras, TensorFlow* Octo
- Developed a system to implement social distancing for On-Site Service employees working at places like warehouses, malls etc where the em- ployees cannot be shifted to work from home.
- Used OpenCV for image detection and video processing to check for masks, social distancing and population density.
- Image Processing techniques are used to detect the distance between every individual and the alarm is generated if the distance is less than the threshold
- If any rule is violated, the system notifies the environment with an alarm.

EEG Based Music Therapy | *Flask, Rest API, Java, Gradle, SQL, Retrofit* August 2020 – October 2020
- Developed a REST API in flask to stream audio songs in android app
- Developed a SQL database to store the metadata about the songs folder
- Developed an android app to get the mood as input from the user and play songs randomly suitable for the user

Breast Cancer Detection | *Scikit-learn, OpenCV, Machine Learning, Image Processing* January 2020 – May 2020
- Data Augmentation technique is used to increase the number of images for data-set of my model
- Image processing techniques like median filtering, scaling, CLAHE Nor- malization, edge detection etc are used to preprocess the given images.
- Machine learning models such as KNN, SVM, Random Forest Classifier, Multi-layer Perception and Convolution-Neural Network are used to clas- sify the input images.

Achievements/Awards

- Received **Merit Scholarships** from Thapar Institute of Engineering and Technology for excellence in my academic performance in 1st and 2nd and 3rd year in B.E
- **Finalist** in HackerRamp, Nationwide Inter-College Hackathon by Myntra
- Secured **2nd position** in first and second academic years in B.E
- Secured **7th position** in AIRC Hackathon held at IIT Bombay
- Secured **2nd position** in coding contest conducted by ISTE(Indian Society for Technical Education)
- Secured **3rd rank** at PEC Line Follower Competition