

# Hifsa Rehmat



Punjab Group of Colleges  
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## Professional Summary

Hifsa is currently a lecturer and MIS officer since March 2021 at the Department of Computer Science, Punjab Group of Colleges, Pakistan. In addition, Hifsa has 1 year of development and 1 year of empirical research experience in machine learning, and data analytics. She has developed a framework to reduce stress by telling his/her situation, further more the user can make phone calls and text to doctor from this application.

## Technical Skills

- Proficient in designing and developing the applications that allow knowledge extraction and text/source-code mining from complex data sources including version control systems, issue tracking repositories, etc.

**Languages** — Python, Java, C++

**Machine Learning Tools:** TensorFlow, Scikit-learn

**NLP Problems:** Repository Mining, Topic Detection, Text Classification, Sentiment Analysis

**Graph Semantics** — Neo4j, D3

## Education

- ❖ Department of Computer Science, Comsats University Islamabad, Pakistan-2019-2021  
**MCS Computer Science**
- ❖ Department of Science, The University of Punjab, Lahore, Pakistan-2016-2018  
**BSc** — Computer Science, Mathematics, Physics
- ❖ Department of Science, FBISE, Pakistan-2014-2016  
**Intermediate** — Computer Science, Mathematics, Physics
- ❖ Department of Science, FBISE, Pakistan-2012-2014  
**Intermediate** — Biology

## Lectureship Experience

- ❖ **Lecturer, Punjab Group of Colleges, Pakistan** — *Department of Computer Science and administration*, March 2021 – Continue
  - Teach information technology and computer science.
  - Deal with admin and IT modules i.e; online students and teachers attendance, timetables for students, Test scheduling, and upload academic calendars
  - Dealing to grant scholarships to needy students.
  - Dealing with administrations for students board's registrations and admissions.

- ❖ **Lecturer, POF Welfare Computer Center, Pakistan** — *Department of Computer Science*, December 2020 – March 2021
  - Taught five modules which include: DataBase management system, Graphic Designing, operating systems, and introduction to programming.

### **Other Experience:**

- ❖ Work as a Graphic designer in a Real Estate company, Wah, Pakistan
- ❖ Work as a teacher in an academy, Wah, Pakistan
- ❖ Work as a Graphic designer and content writer as a freelancer.

### **Development Experience**

- **Stress Manager (Java)** — I have developed an android application with the collaboration of Dr. Saqib (Assistant professor of the psychiatry department, DHQ hospital Gujranwala). By using this app, you don't need to go to Doctor, you can easily reduce your stress by telling your situation to the app. You can also make phone calls and text messages to doctor from this app. This project is solely developed by me and can be downloadable from following link:  
<https://play.google.com/store/apps/details?id=com.semangix.stressmanager&hl=en>
- **CXR-Based COVID-19 Detector (Python)** — In this project, I have developed a conv2d and maxpooling2d based model, a deep CNN oriented model that will be able to detect COVID-19 infection automatically from CXR images. This model is built on Xception architecture which is pre-trained on ImageNet dataset. I trained it end-to-end on a dataset generated on COVID-19 and normal CXR images by employing publicly available datasets. This model could prove to be a very helpful tool in the clinical practices in recognizing the CSRs and can assist radiologists in diagnosis the infection type from radiographic data.

### **Some Personal Characteristics**

- ❖ Able to work under deadline pressures.
- ❖ Experience of accomplish task(s) in a group or individual.
- ❖ Adaptive to learn new technologies.
- ❖ Feel happy while writing.
- ❖ Multicultural and Multilingual.

**References provided on request**