

# Sumaiya Dabeer

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## Objective

To work in a globally competitive environment on challenging research problems to enhance me and my organization through continuous improvement.

## Experience

- Sep 20–Present **Teaching Assistant**, CSE IITD, Delhi, Courses: CON101(Head TA) COL106, COL202, COL380, COL726.
- July 19–July 20 **QA and Automation Engineer**, String Pvt. Ltd., Aligarh, Working on Selenium, PyTest, Postman, Dredd, Django, REST Framework .

## Education

- 2020–Present **PhD (Computer Engineering)**, Department of Computer Science and Engineering, Indian Institute of Tehnology Delhi, Delhi.
- 2018–2020 **M.Tech (Software Engineering)**, Z. H. College of Engineering and Technology AMU, Aligarh, CPI 10/10.
- 2014–2018 **B.Tech (Computer Engineering)**, Z. H. College of Engineering and Technology AMU, Aligarh, CPI 9.4/10.
- 2013 **Higher Secondary School**, SSSG AMU, Aligarh, 79.75%.
- 2013 **High School**, Jyoti Vidya Mandir, Gonda, 70.34%.

## Projects

- 2020–Present **Distributed Laplacian solvers of graph using GPUs**, PhD work, Implemented using C++ and CUDA, Ongoing.
- 2019–2020 **Graph Based Word Embeddings on NLP Tasks**, M.Tech Dissertation, Implemented using Pytorch, Completed.
- 2019–2020 **PF2JSON**, Standalone project to convert pdf format of data to json format, Implemented using Tabula-py , Completed.
- 2019 **Brain Tumor Overall Survival Prediction Using MRI**, M.Tech project, Implemented using MATLAB, Completed and under Publication.
- 2019 **Smart City**, M.Tech lab joint project, Implemented using RaspberryPi 3 and associated hardware, Completed.
- 2018 **User Authentication System**, M.Tech lab project, Graphical Password approach Implemented using Django framework, Completed and Published.
- 2018 **Emotion Detection**, M.Tech lab project, Android App Implemented using Microsoft Face API, Completed.
- 2017–2018 **Breast Cancer Detection Using Deep Learning**, B.Tech Major project, Implemented by CNN using Keras and Tensflow, . Completed and Published

- 2017 **GATEMATE**, *B.Tech Minor project*, Dynamic gate preparation website in JSP HTML and Oracle, *Completed*.
- 2015 **SARMS**, *Software Engg Assignment*, Student Record Management System using file system as the database, *Completed*.
- 2015 **Graphical Calculator**, *B.Tech lab Project*, Implemented using basic and Graphic.h library of C, *Completed*.

## Academic Papers and Workshops

- Academic Paper "A Novel Hybrid User Authentication Scheme Using Cognitive Ambiguous Illusion Images" In Data Communication and Networks, pp. 107-118. Springer, Singapore, 2020.
- Academic Paper "Cancer diagnosis in histopathological image: CNN based approach" In Informatics in Medicine Unlocked 16 (2019): 100231. *40+ citation*
- Academic Paper "A New Method to Optimize Initial Cluster Number and Then Apply K-Means Algorithm to Perform Image Segmentation" in STM journal of "JOMTRA" ISSN:2349-9028 (Online) Volume 5, Issue 2.
- Short Course NLP In Psycholinguistics And Big Data at IIT Kanpur in December 2018
- Workshop Python For Engineers in 2019
- Workshop Social Media and Data Analytics in 2019
- Workshop Data Science using Python and Advance Excel in 2019
- Workshop Android in 2016
- Workshop Core Java in 2015

## Technical skills

- Advance Knowledge: C, XAMPP, MySql, MongoDB, Selenium, PyTest, UnitTest, Postman, Dredd, Python, Numpy, Pandas, Machine Learning, Deep Learning, NLP, MATLAB
- Intermediate Knowledge: C++, Java, Django, REST Framework, ModelSim, Oracle
- Basic Knowledge: PHP, Android Studio, JSP

## Achievements

- Finalist from TechGium-2020, National level competition by Larsen & Toubro
- Presented conference paper in "GUCON-2019"
- Served as Resource Person in workshop "Simulation of Networks (SON-2019)"
- Team leader in the joint project of Smart City using RaspberryPi3
- Qualified NET organized by UGC
- Qualified GATE with 96 and 98 percentile in 2018 and 2019

## Languages

- Mother tongue: Hindi
- Fluent: English, Urdu

## Interests

- Programming
- Surfing Quora
- Listen to people and understand their perspective.
- Visiting the new place and meeting different persons