# Safia Fatima

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## EDUCATION

**Masters of Computer Science (MSCS)** FAST-NUCES, Peshawar, Pakistan**-** GPA: 3.44/4.00 **A**ugust 2016-January 2019
**Bachelors of Computer Science (BSCS)** FAST-NUCES, Peshawar, Pakistan **-** GPA: 3.15/4.00 August 2012-May 2016
**FSc. Computer Science** Peshawar model degree collage, Peshawar, Pakistan **-** Marks: 892/1100 August 2010-May 2012
**Matriculation** Peshawar model school, Peshawar, Pakistan **-** Marks: 861/1050 June 2010

## PUBLICATIONS

**Evaluation of Multi-Modal MRI Images for Brain Tumor Segmentation (Accepted)** November 2019

- **Conference:** ICET'19 The 15th IEEE International Conference on Emerging Technologies
- **Presentation Schedule:** Peshawar, Pakistan, December 3rd, 2019

## TECHNICAL SKILLS

**Programming Languages:** JAVA, C++, C, PHP, JavaScript, HTML, MATLAB, Python
**Machine Learning:** Spam Classification, Supervised and unsupervised Learning, Recommenders System
**Analytics:** Jupyter. SQL, Excel
**Operating System:** windows, Linux, windows server 2003/2008
**Version Control System:** Git
**Tools/Libraries:** OpenCV, Scikit Learn, Tensorflow, keras, Git, CUDA

## RESEARCH PROJECT (Thesis - MSCS)

**Evaluation of Multi-Model Brain MRI Images for the Localization of Glioblastomas** January 2018-January 2019

- A method that incorporates a deep learning based model U-Net to address brain tumor localization.
- Utilizing BRATS2015 as the primary dataset for Brain MRI Images.
- Using the same architecture for the evaluation of individual modalities.

## WORK EXPERIENCE

**FAST-NUCES, Peshawar** – Lab Instructor January 2018 - To Date

- Working under Computer Science Department as a Lab Instructor.
- Involved teaching courses including Introduction to Computing, Programming Fundamentals, and Digital Logic Design.
- Gained skills in Python and C++ programming languages.

## KEY PROJECTS

**Extraction of opcodes from the source file of android app** September 2017

- Building an algorithm to identify only the opcode of android application. Implemented using Python in Anaconda environment.

**Data Dissemination for Bioinformatics: An Agent Migration Approach (FYP-BSCS)** May2016

- An agent migration approach to fill in the gap that existing approaches have not addressed: retrieving remote data in a low-quality network environment, especially unstable mobile computing environments and do the client-side computation on server end.
- The ability of migration offers mobile agents a means to overcome the high latency or limited bandwidth problem by moving their computations to required resources or services. User will be able to see his/her activity graphically visualized logs and statistics on their smart phone screen.
- The proposed approach can also overcome the resource limitation of mobile terminals and release mobile users from keeping online persistently.

**IDE decision tree learning algorithm for decision making using Machine Learning** May 2016

- Given dataset with the discrete values. It concludes weather yes or no? Decided on the basis of probability.
- Utilized Python and Scikit-learn framework for achieving higher accuracy.

## KEY ACHIEVEMENTS & AWARDS

- **2 Bronze Medal -** FAST-NUCES, Peshawar, Pakistan August 2012-May 2016
- **Dean's Certificate Holder -** FAST-NUCES, Peshawar, Pakistan August 2012-May 2016
- **Android Development Certification - FAST**-NUCES, Peshawar, Pakistan August 2015-Dec 2015
- **Female coordinator and International Member of ACM-Student Chapter - FAST**-NUCES, Peshawar, Pakistan August 2014-May 2016