

# Iqra Shabbir

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## Education

<b>Khawaja Freed University of Engineering &amp; IT, Pakistan</b> <ul style="list-style-type: none"><li>CGPA 3.63/4.00</li></ul>	<i>MS in Software Engineering</i>	2019-2021 <b>RYK, PAK</b>
<b>The Islamia University of Bahawalpur</b> <ul style="list-style-type: none"><li>CGPA: 3.83/4.00</li></ul>	<i>Master's in Computer Science</i>	2013-2015 <b>BWP, PAK</b>

## Skill Summary

- Languages:** Python, SQL, R, JAVA, C, C++, C#
- Project Management:** Experience managing multiple projects, coordinating teams, ensuring timely delivery of milestones, and optimizing processes.
- Frameworks:** Pandas, Numpy, Scikit-Learn, Matplotlib
- Tools:** PowerBI, Excel, PowerPoint, SQLServer, Visio,
- Platforms:** Pycharm, Jupyter Notebook, Visual Studio Code, Spyder, Sublime
- Soft Skills:** Report building, Excellent Communication, Leadership and team collaboration, Problem solving, time management

## Work Experience

<b>Government Employee (Education Department)</b> <ul style="list-style-type: none"><li>Analyze and monitor government schools' and improve their performance.</li></ul>	<i>Assistant Education Officer</i>	March.2018-Present <b>SDK, PAK</b>
<b>Iqra Post Graduate College, SDK</b> <ul style="list-style-type: none"><li><b>Major Subjects: Digital Logic Design, Computer Graphics, Compiler Construction, Advanced OOP</b></li></ul>	<i>Visiting Lecturer</i>	2016-2018 <b>SDK, PAK</b>
<b>Iqra Post Graduate College, SDK</b> <ul style="list-style-type: none"><li>Provide guidance and instructions to students regarding their projects.</li></ul>	<i>Supervisor</i>	2017-2018

## Projects and Research

- MS Thesis:** An Improved Framework of Effort Estimation Using Machine Learning Technique.  
In this research work, I implemented Machine Learning models to measure the accuracy of measuring effort and proposed an ensemble model to calculate accuracy. My research provides facility to the practitioners to decide on a suitable effort estimation technique for their future software development projects.

## Project (Master's in Computer Science)

- APP CREATOR (Master's Project):** This app is designed as a source of getting general information associated with creating a data application. App creator provides the facility to connect to database, specifies the path where the form will create. It creates tabular form of the selected table, creates columnar form as well as master detail form. It also creates a project file.

**Software used:** Visual Studio 2013, SQL Server 2012, UML Diagrammer, Microsoft Word, Microsoft office Visio.

## Major Projects

- Feature Extraction with Machine Learning
- Image Segmentation with Deep Learning

- Image filtering with machine learning
- Rainfall prediction with machine learning
- Credit Card Fraud Detection
- Real Estate Price Prediction

## **AI Projects**

- **1. AI-Powered Tic-Tac-Toe Game**
  - Developed a Python-based Tic-Tac-Toe game using Minimax Algorithm for decision-making and AI player logic.
  - Focused on reinforcement learning concepts to make the AI improve its strategy with multiple plays.
- **2. Chatbot for FAQs**
  - Created a chatbot using Natural Language Processing (NLP) techniques and Python libraries like NLTK and SpaCy
  - Designed to respond to user queries and learn user preferences over time.
- **3. Recommendation System for Movies**
  - Built a recommendation system using collaborative filtering and machine learning models to predict user preferences.
  - Leveraged Python libraries like Pandas and Scikit-Learn for data preprocessing and modeling.

## **Publications**

*“Effort Estimation Using Machine Learning Technique”* (submitted and under review in Elsevier)

## **Certifications**

- Programming or everybody (Getting started with python) **COURSERA**
- An introduction to Computer Vision **COURSERA**
- Project Planning and Estimation Techniques <https://cdn01.alison-static.net/parchment-previews/a9962fdacb8a5a04629b1972c0e3d13d.jpg>
- Tools for Data Science IBM **COURSERA** <https://coursera.org/share/9deede52e875d13f1a1ab2c6cb526024>
- What is Data Science IBM **COURSERA** <https://coursera.org/share/e471cb1c4fcec9e7cd13dd3e39b131bb>
- Introduction to Python <https://learn.365datascience.com/c/3c4e99abc6/>

## **Field of Interest**

- Reinforcement Learning
- Robotics
- Project Management
- Project Engineering
- Data Science
- Data Analysis
- Image Analysis and Machine Vision

## **Affiliation**

- Higher Education Commission (HEC), Pakistan.

