# Bisma Khalid

**Date of birth:** 03/03/2001 | **Nationality:** Pakistani | **Phone number:** (+92) 3125585606 (Mobile) | **Email address:** bisma.khalid.798@gmail.com | **LinkedIn:** https://www.linkedin.com/in/bisma-khalid-0a2255199/ |

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## WORK EXPERIENCE

01/08/2023 - CURRENT Islamabad, Pakistan

**JUNIOR SOFTWARE ENGINEER (ARTIFICIAL INTELLIGENCE)** AKSA - SDS

Coding AI algorithms for touchless fingerprint detection tools
Analyzing data
Training and optimizing image processing and detection models
Collaborating for integration into Android and iOS.

01/07/2022 - 31/08/2022 Islamabad, Pakistan

**COMPUTER VISION INTERN** DATA INSIGHT RESEARCH LAB, NUCES

Implementing algorithms of Deep Learning and Computer Vision
Collecting and annotating image datasets for OCR detection
Training, evaluating models, and optimizing performance

01/02/2023 - 01/06/2023 Islamabad, Pakistan

**LAB DEMONSTRATOR** NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

Assisting students with database concepts and exercises
Grading assignments, providing feedback, and resolving bugs and errors
Collaborating with instructors to ensure a positive learning experience.

03/08/2021 - 02/02/2022 Islamabad, Pakistan

**TEACHING ASSISTANT** NATIONAL UNIVERSITY OF COMPUTER AND EMERGING SCIENCES

Grading assignments and quizzes
Answering student inquiries and providing academic support
Helping with course preparation

## EDUCATION AND TRAINING

19/08/2019 - 15/07/2022 Islamabad, Pakistan

**BACHELORS OF SCIENCE (ARTIFICIAL INTELLIGENCE)** National University of Computer and Emerging Sciences

**Website** https://www.nu.edu.pk/ | **Thesis** KIDNEY IMAGE SEGMENTATION FOR ANOMALIES ANALYSIS

## LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---|---|---|---|---|---|
| | Listening | Reading | Spoken production | Spoken interaction | |
| **ENGLISH** | C1 | B2 | B2 | B2 | B1 |

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

C / C++ Programming | Python Programming Language | HTML5, CSS, ReactJS | OpenCV, TensorFlow, Pytorch, NLTK, MLOps | LaTex | Python, Scikit-Learn, Numpy, Matplotlib | Python (Selenium, BeautifulSoup) | Beginner PLSQL | MLOPS

## ADDITIONAL INFORMATION

### PUBLICATIONS

**LIGHT-WEIGHT U-NET STRUCTURE INDUCTED IN KIDNEY IMAGE SEGMENTATION FOR ANOMALIES ANALYSIS** - 2024

Paper 12931-48 | Authors: Manahil Shaikh, Bisma Khalid, Javaria Latif, Uzair Iqbal, Labiba Fahad

### PROJECTS

01/08/2023 - CURRENT
**FLECK** Biometric Verification for touchless four-finger application using YOLO and CV algorithms for enhancement of fingerprints.

12/12/2023 - CURRENT
**COUNTER-FINANCING TERRORISM SOLUTION** Initiative of counterterrorism finance that uses web scraping and Natural Language Processing to combat money laundering in real-time

10/06/2022 - 12/06/2023
**CHRONIC KIDNEY DISEASE DETECTOR (RESEARCH PAPER)** Modified U-Net Architecture with Feature Upscaling Techniques. Along with the pre-trained classification models - VGG16, RESNET. Also, I developed the MLOps Pipeline for the project. (CV, MLOps)

10/05/2023 - 20/05/2023
**GAME DESIGNER MARIO** Implemented Genetic Algorithm on Mario game for generating levels using Mario-GPT. (Applied Evolutionary Computing)

15/06/2022 - 25/07/2022
**AUTOMATED BRANDING (RESEARCH PAPER)** Content generation for product marketing using RNN - LSTM Network (NLP)

01/12/2022 - 16/12/2022
**PERCEIVING 3D OBJECTS** Implemented point-net architecture using TensorFlow (Deep Learning)

### CERTIFICATIONS

01/02/2024 - CURRENT
**Machine Learning Specialization**

- DeepLearning.AI

**Link** https://www.coursera.org/specializations/machine-learning-introduction

11/08/2020 - 21/08/2021
**Object-Oriented Data Structures in C++ - University of Illinois**

**Link** https://www.coursera.org/account/accomplishments/certificate/ZARZUF89LXZY

05/01/2021 - 08/01/2021
**Introduction to Machine Learning - Developer Ecosystem Programs**

**Link** https://verified.sertifier.com/en/verify/916810546499/

06/08/2020 - 12/08/2020
**Introduction to AI - IBM**

**Link** https://www.coursera.org/account/accomplishments/certificate/YYK5PXL4EUM3

20/07/2020 - 27/07/2020
**Programming for Everybody (Getting Started with Python) - University of Michigan**

**Link** https://www.coursera.org/account/accomplishments/certificate/Y5RC8LFYAHD5