

Anum Jaffar

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Education

- **National University of Sciences & Technology (NUST)**, Islamabad, Pakistan
- M.Sc. (via Thesis) in Robotics & Intelligent Machine Engineering, 2020-2023
Thesis: **Personality Prediction Using a Humanoid Robot during Human-Robot Interaction**
CGPA: **3.5/4.00**
- **Government College University Faisalabad (GCUF)**, Faisalabad, Pakistan
- B.Sc. in Information Technology, 2014-2018
Thesis: **3D- Fantasy Racing Game**
CGPA: **3.42/4.00**

Experience

- **Senior Research Officer/ Research Associate** at Intelligent Robotics Lab (IRL), National Center of artificial Intelligence (NCAI), NUST (March 2025-Present)
- **Computer Science Teacher & Subject Coordinator**, Allied School, Faisalabad, Pakistan (2018-2019)
- **Academic Coordinator & Instructor**, Gulam Muhammad College, Faisalabad, Pakistan (2017-2018)

Publications

- **Personality Prediction in Human-Robot-Interaction (HRI)**, International Conference on Applied Human Factors and Ergonomics (AHFE), 2022
[“Personality Prediction in Human-Robot-Interaction \(HRI\)”, International Conference on Applied Human Factors and Ergonomics \(AHFE\), 21 July 2022. | Request PDF \(researchgate.net\)](#)
- **A Comprehensive Multimodal Humanoid System for Personality Assessment Based on the Big Five Model**, IEEE Access, 2024
[A Comprehensive Multimodal Humanoid System for Personality Assessment Based on the Big Five Model | IEEE Journals & Magazine | IEEE Xplore](#)
- **A Multimodal Architecture for Real Time Automated Attention Monitoring Using Computer Vision**, 2026 IEEE 15th International Conference on Communication Systems and Network Technologies (CSNT)
[A Multimodal Architecture for RealTime Automated Attention Monitoring Using Computer Vision](#)
- **Optimizing Real-Time Visual Emotion Perception Using Influential Landmark-Based Spatial Feature Extraction for Edge Devices**, 2026 IEEE 15th International Conference on Communication Systems and Network Technologies (CSNT)
[Optimizing Real Time Visual Emotion Perception Using Influential Landmark Based Spatial Feature Extraction for Edge Devices](#)

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Awards and Volunteer work

- Engaged in peer-reviewing manuscripts for **IEEE Access**
- **Cash Prize (2024)** from the National University of Sciences and Technology (NUST) for publishing papers
- **The First Vocational College Skills Competition China (2022)**, 6th Position in W08 Information Technology Application Innovation
- **Outstanding Academics Laptop Award (2018)**, The Chief Minister of Pakistan

Certifications

- Certification in **WordPress (2020)**
- Certification in **Graphic Designing (2020)**
- Certification in **Essential of Data Science (2020)**
- Introduction to **Data Analytics (2023)**
- Tools for **Data Science (2023)**
- Excel Basics for **Data Analysis (2024)**

Technical Skills

- Programming Languages: Python, C/C++, MATLAB, C#, Arduino Programming, HTML, CSS
- Design Tools: Microsoft Office (MS Word, MS Excel, MS- Project Professional, MS Visio), Unity 3D, Database, MySQL, Oracle. WAMP/XAMPP, SQL Management Studio, Dreamweaver, ROS, Gazebo, Arduino, Choregraphe, Webots, Android Studio, Visual Studio, PyCharm

Current Projects

- **Mild Cognitive Impairment Game** (Currently Working)
Front End and APIs
Local and Cloud Database Design
System Integration
- **Frailty Assessment System** (Completed)
Front End
APIs
Local and Cloud Database Design
System Integration

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- **Depression Assessment** (Completed)
Software: PyCharm
Language: Python
- **Physical Frailty Assessment** (Completed)
Software: PyCharm
Language: Python
- **Attention Analysis** (Completed)
Software: PyCharm
Language: Python

Semester Projects in Masters

- **Real-Time Pose Estimation (Skeletonization)**
Software: PyCharm
Language: Python
- **Real-Time Object Measurement**
Software: PyCharm
Language: Python
- **2 Wheel e-puck Robot**
Software: Webots
Language: C++
- **P3at Simulation Using ROS**
Software: Webots, ROS
Language: C++
- **Mapping and Path Planning using P3at**
Software: Gazebo, ROS, Rviz
Language: C++
- **Line Following and Obstacle Avoidance to Reach Goal Position**
Software: Arduino
Language: Arduino language
- **Tidy up Things in the Kitchen using NAO Robot**
Software: Choregraphe
Language: Python

Semester Projects in Bachelor

- **Web Based System for Scrap Wire Business**
Software: Dreamweaver, Wamp
Language: HTML, CSS, PHP, Java Script
- **Clinical Front End and Database System**
Software: Oracle SQL, Oracle Form 6i
Language: Oracle queries
- **Web Based System for Restaurant**
Software: Dreamweaver, Wamp
Language: HTML, CSS, PHP, Java Script