

# Muhammad Atta Ur Rahman



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## Summary:

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Computer Science Visiting Lecturer, with more than one year experience as a Research Assistant, and almost 5 years practical experience of development in various programming languages. Furthermore, communicates productively with both technical and non-technical personnel and clients, having the ability to contribute to multi-team development projects.

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## Highlights:

- Machine Learning (RL)
- OpenAI Gym
- Optimization Techniques (PSO, WOA)
- CARLA and TORCS Simulator
- Deep Learning
- Digital Image Processing
- Keras, Tensorflow
- Block Chain
- Python, C++, Java Developer
- OpenCV, Scikit-Learn
- Video Summarization
- Software Testing
- Web Development
- Microsoft Office
- Web Scraping
- Team Player

**IELTS:** 6.0

## Academic Qualification:

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### BS Software Engineering at Islamia College Peshawar

(August 2017 to September 2021)(CGPA: 3.75/ 4.0)(Score: 93.24%) ([ICP Website](#))

### HSSC at Buoy Model School & College, Malakand

(September 2014 to September 2016) (Score: 71%) ([BISE Malakand](#))

### SSC at Government High School Ikram Pur, Mardan

(Completed in 2014) (Score: 80%) ([BISE Mardan](#))

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## Experience:

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### i) Visiting Lecturer at Department of Computer Science Islamia College Peshawar:

(Since September 2022 to date)

- Taught courses on several programming languages including Java, Python, C#, C++ and PHP, JavaScript, etc.

### ii) Research Assistant at Digital Image Processing Lab (ICP):

(Since September 2021 to Date)

- Research in different areas, providing guidance to new students.

## Projects:

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[GitHub Link](#)

- **Final Year Project in BS:**
  - Multimedia Data Integrity in IoT Visual Sensor Network Using Block chain.  
(Paper is ready to submit)
- **Reinforcement Learning Projects**
  - RL for Autonomous Driving using OpenAI Gym and Python
  - Drive a Taxi using OpenAI Gym and Python
  - Build Agents to Play Atari Games, using OpenAI Gym and Python
  - Trading Bot using OpenAI Gym AnyTrading and Python
  - CartPole Game using OpenAI Gym (*"Inverted Pendulum" problem solving*)
  - Training Lunar Lander using OpenAI Gym and Python
  - Building a Custom Environment for Deep Reinforcement Learning with OpenAI Gym and Python
  - Currently working with Carla and TORCS Simulator
- **Machine Learning Projects**
  - House Price Predictions using ML
  - Human Activity Recognition using LSTM and ML
  - Video Summarization using OpenCV and Python
  - Iris Flowers Classification using ML
  - Optical Character Recognition (OCR) with Pytesseract and OpenCV
  - Currently working on PD( Parkinson Disease) Analysis
- **Volunteer Projects**
  - Build a website for department of Chemistry for hosting "Internal Conference on Chemistry"
  - Build a Web based Application for Nawaz Travelling Agency
  - Testing University website for checking purposes
  - Build a Web Based Application "PakProperty" in Collaboration

## Programming and Development Tools:

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- **Programming Languages:**  
C/C++, Java, Python
- **Software Testing Tools:**  
Robot Framework, Selenium
- **Web Scraping Tools:**  
Puppeteer
- **Machine Learning Tools:**  
Scikit-learn, TensorFlow
- **Reinforcement Learning Tools:**  
OpenAI Gym, TensorFlow, Stable-Baselines3, Carla & TOARC Simulator
- **Computer Vision Tools:**  
OpenCV, TensorFlow, Keras.
- **Web Application development:**  
HTML5, CSS3, Bootstrap4, JavaScript, PHP, Apache

## Achievement:

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- Session Topper(2017\_2021)

## Volunteer Work:

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- Campus Ambassador of a Blood Donation Organization (The Blood Heroes)
- Dust Free Campaign at campus ( Society Member)

## References:

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- **Dr. Muhammad Sajjad**, Ph.D. (Sejong University, South Korea)  
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