

# Abdul Manan

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## EDUCATION

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### University of Central Punjab, Lahore

Oct 2020 – July 2024

- Bachelor of Computer Science

### Punjab Group of Colleges, Lahore,

Sept 2018 – May 2020

- Intermediate in Computer Sciences

## SUMMARY

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Recent Computer Science graduate with a focus on cybersecurity and hands-on experience in penetration testing, vulnerability assessment, and network scanning. Proficient in using industry-standard tools such as Metasploit Framework, Burp Suite, Nikto, Hydra, and John the Ripper to identify and exploit system vulnerabilities. Adept at Linux systems, with knowledge of network enumeration using tools like Nmap and Zap Pro. Successfully led projects that enhanced network security, leveraging machine learning for intrusion detection. Strong analytical skills, problem-solving, and teamwork abilities make me eager to contribute to cybersecurity teams and protect digital assets in high-stakes environments.

## ACADEMIC PROJECTS

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### Zero Trust Cyber Bot (ZTCB):

UCP (University Central Punjab) Oct 2023 – July 2024

- Developed an AI-driven chatbot for intrusion detection in edge networks using machine learning models, achieving 86.84% accuracy with Decision Tree and 83.48% accuracy with Random Forest.
- Utilized Raspberry Pi to create a virtual network, enhancing network security through real-time packet analysis.

### Lung Cancer Detection:

UCP (University Central Punjab) Mar 2023 – July 2023

- Implemented image processing for lung cancer detection using CT scan images, focusing on tumor segmentation through advanced thresholding and morphological operations.
- Utilized Python with OpenCV and Matplotlib to visualize results, aiding in the early detection and diagnosis of lung cancer.

## PUBLICATIONS

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Mugheez Asif, Abdul Manan, Abdul Moiz, Mamoona Naveed Asghar, and Muhammad Umair. "AI-Driven Chatbot for Intrusion Detection in Edge Networks: Enhancing Cybersecurity with Ethical User Consent." *arXiv preprint arXiv:2408.04281* (2024). <https://arxiv.org/abs/2408.04281>

## SKILLS AND INTERESTS

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**Technical Skills:** Penetration testing, Vulnerability Assessment, Exploitation and Enumeration, Cryptography and Steganography, C, C++, Linux, Python, R, Hadoop, Spark, MySQL, Microsoft Applications (Word, Excel, PowerPoint), Burp Suite, Nikto, Nessus, Wireshark, Nmap, Metasploit, Hydra, John the Ripper, Hash Crack.

**Language:** English - Fluent, Urdu – Native

**Interpersonal Skills:** Teamwork, Critical thinking, Problem solving, Time management

**Interests:** Hiking, Bodybuilding, Traveling