

Sana Ullah Khan

MS Artificial Intelligence | Cybersecurity & AI-driven Threat Detection

Cisco Junior Cybersecurity Analyst · Cisco Ethical Hacker · NAVTTC Digital Forensics · IELTS 6.5

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Portfolio: sanaullah-niazi.github.io/portfolio

CGPA 3.66 / 4.00 MS Artificial Intelligence, IUB	3 publications Peer-reviewed journals, 2026	2+ years teaching Visiting Lecturer, Dept. of IT	IELTS 6.5 (B2) Academic, October 2026
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PROFILE

Information Technology graduate with an MS in Artificial Intelligence (CGPA 3.66/4.00) and a growing focus on cybersecurity. My MS thesis built deep learning models (LSTM, BERT and hybrid architectures) that separate AI-generated from human-written text with up to 99.65% accuracy on about 500,000 samples. I am first author of a peer-reviewed paper on AI-driven fraud detection for FinTech cybersecurity and hold Cisco and NAVTTC certifications in cybersecurity, ethical hacking and digital forensics. I am applying for graduate study in cybersecurity and AI to build a career in AI-based threat detection and security operations.

EDUCATION

MS in Artificial Intelligence Nov 2023 – Jan 2026

The Islamia University of Bahawalpur, Faculty of Computing, Pakistan

CGPA 3.66 / 4.00 (80.40%) · 4 semesters with research thesis · degree issued 15 Jan 2026

- Thesis:** “Advancing Deep Learning and Neural Network Techniques for AI and Human Text Classification”, supervised by Prof. Dr. Najia Saher (Chairperson, Dept. of AI).
- Built and compared LSTM, fine-tuned BERT, TF-IDF + BERT + LightGBM and BERT + LSTM models on a balanced dataset of ~500,000 texts; the BERT + LSTM hybrid reached 99.65% accuracy and 0.995 F1-score.

BS in Information Technology Oct 2019 – Jul 2023

Balochistan University of IT, Engineering & Management Sciences (BUIEMS), Quetta, Pakistan

CGPA 2.73 / 4.00 (68.13%) · 133 credit hours · degree conferred 30 Oct 2023

- Security & networking courses:** Information Security, Security Management, Cyber Security, Computer Networks, Systems & Network Administration, IT Infrastructure, Virtual Systems & Services.
- Final-year project:** “IoT-based Pure Aqua Utilization in Smart Edifice” (team of 3, supervisor Dr. Raja Asif Wagan): Arduino sensors, automatic pump control and an Android app for tank level, water quality and billing.

Diploma in Health, Safety & Environmental Engineering (3 years) May 2017 – May 2020

Peshawar Institute of Technical Education · awarded by Islamabad Board of Certified & Skilled Professionals

85.08%, Grade B+ · part-time after the first year · classes completed Jan 2020 · diploma awarded 27 May 2020

PUBLICATIONS

Khan, S. U., Zafar, U., Imran, S., & Ali, M. (2026). Artificial Intelligence–Driven Fraud Detection in FinTech: Strengthening Cybersecurity Against Digital Financial Scams. *Journal of Business Insight and Innovation*, 5(6), 72–82. doi:10.63544/jbii.v5i6.116

Khan, S. U., Zafar, R., Alam, M. M., & Iqbal, M. (2026). Artificial Intelligence and Workplace Safety in the Oil and Gas Industry: Transforming Occupational Risk Assessment through Smart Safety Analytics. *Periodicals of Management Studies*, 6(1). doi:10.65181/poms.06.01.0100

Soomro, M. A., Khalid, M. A., Mangi, A. R., & **Khan, S. U. (2026). GenAI Adoption in Entrepreneurial Education and Digital Entrepreneurial Intention.** *International Journal of Advanced Social Studies*, 6(1), 82–93. doi:10.70843/ijass.2026.06107

WORK EXPERIENCE

Visiting Lecturer (part-time, alongside MS studies)

Mar 2024 – Jun 2026

GC University Faisalabad, Layyah Campus · Department of Information Technology

- Taught Introduction to Information & Communication Technologies and Computer Networks to undergraduate IT students.
- Prepared lectures, lab work, assignments and quizzes; marked examinations and assessed student work.

Freelance Video Editor & Python Automation Specialist

Jul 2021 – Present

Upwork (remote, international clients)

- Completed 43 contracts with a 100% Job Success Score, \$10K+ total earnings and 1,494 logged hours.
- Edited and published short-form video and managed YouTube and TikTok channels for clients.
- Wrote Python scripts for web scraping, data collection and automating repetitive publishing tasks.

CERTIFICATIONS

CYBERSECURITY & DIGITAL FORENSICS

Digital Forensic & Cyber Security (3-month course, Grade A)

NAVTTTC, Govt. of Pakistan · Feb – May 2024

Junior Cybersecurity Analyst Career Path

Cisco Networking Academy · Oct 2024

Ethical Hacker

Cisco Networking Academy · Nov 2024

Introduction to Cybersecurity

Cisco Networking Academy · Nov 2024

AI, PROGRAMMING & IOT

Programming in Python

Meta (Coursera) · Feb 2025

Advanced Chatbots with Deep Learning and Python

Packt (Coursera) · Feb 2025

AI Python for Beginners

DeepLearning.AI (Coursera) · Mar 2025

IoT for Everyone

UET Peshawar / HEC (Coursera) · Jul 2026

OTHER TRAINING

IOSH Managing Safely · OSHAcademy 30-hour General Industry Safety and Health

2026

SKILLS

Security	Network security, threat and vulnerability analysis, ethical hacking basics, digital forensics, incident response; Wireshark, Nmap, Kali Linux (lab level)
AI / Data	Python, PyTorch, TensorFlow/Keras, Hugging Face Transformers, scikit-learn, LightGBM, NumPy, Pandas, Matplotlib; NLP and text classification
Systems & Web	Computer networks, Linux (Ubuntu), Arduino and IoT sensors, HTML, CSS, web scraping and automation scripts, Git/GitHub, Jupyter, Kaggle

LANGUAGES & INTERESTS

Languages	English – fluent (IELTS Academic 6.5, B2; BS and MS taught in English) · German – beginner, started October 2026 · Pashto and Saraiki – native · Urdu and Punjabi – fluent
Interests	Football (defender) and cricket tournaments, hiking in the mountains, cooking traditional food, UFC

REFERENCES

Available on request.

ABOUT ME – PERSONAL STATEMENT

My path to cybersecurity has not been a straight line, but every step has led me towards it.

Where I come from

I grew up in Chaman, Balochistan. After school I was unsure which career to follow. I spent about a year preparing for armed forces selection and exploring options. Many people from my area were building careers through safety qualifications, so I completed a three-year diploma in Health, Safety & Environmental Engineering in Peshawar, attending regularly in the first year and part-time afterwards. It taught me to think in terms of risk, hazards and prevention, a way of thinking I now apply to digital systems.

My studies

In 2019 I began a BS in Information Technology at BUITEMS Quetta. I will be honest: my bachelor's CGPA (2.73) does not reflect what I can do. Through much of my degree I spent most of my time on sport, playing cricket tournaments and football as a defender, and from 2021 I was also working as a freelancer on Upwork, where I completed more than 40 contracts with a 100% job success score. Towards the end of my BS I learned to manage my time and take my studies seriously.

My MS in Artificial Intelligence at The Islamia University of Bahawalpur was the turning point. I worked hard, graduated with a CGPA of 3.66, and published three peer-reviewed papers with different research teams. My thesis used deep learning (LSTM, BERT and hybrid models) to tell AI-generated text from human writing, reaching 99.65% accuracy, and I am now preparing my own paper from it. At the same time I taught Introduction to ICT and Computer Networks as a visiting lecturer at GC University Faisalabad (Layyah Campus).

Why cybersecurity

I chose AI for my master's because my university offered no cybersecurity track, and I saw AI as the right foundation: the two fields increasingly work hand in hand. I then built my security skills on my own through Cisco's Junior Cybersecurity Analyst and Ethical Hacker programmes and a NAVTTC course in digital forensics and cyber security. My motivation is also personal. I have been the victim of an online scam and of a ransomware attack, and I see how weak cyber protection still is in Pakistan. Since COVID-19, businesses and daily life have moved online, while AI is making attacks faster and more convincing. I want to be on the side that defends against them.

My goals

I want to continue in research-led graduate study that combines my AI background with rigorous, hands-on security training. After that I want to work on AI-based threat and fraud detection, in research or in security operations (SOC, blue- or red-team roles, or governance, risk and compliance), and to keep adding professional certifications. In the long term I want to help solve real cyber problems, in Pakistan and wherever I work.

Outside my studies

I play football and cricket, go hiking in the mountains, cook traditional food and follow UFC.