

Kanchon Kumar Bishnu

AI Research Scientist | Software Engineer | Cybersecurity Enthusiast

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🔍 Kanchon's Researchgate 🏠 Kanchon's Scholar 🆔 Kanchon's ORCID

📄 Professional Summary

AI Research Scientist with 3+ years of experience in Machine Learning, Cybersecurity, Health Informatics, and Data Analytics. Published 15+ peer-reviewed papers in leading journals including IEEE Access, Elsevier, MDPI, and Springer Nature, with multiple Q1-ranked publications. Holder of a UK-approved patent in computer science innovation. Skilled in Python, C++, TensorFlow, PyTorch, and cloud-based AI systems. Experienced peer reviewer for Elsevier and IOS Press journals and contributor to AI-driven healthcare and cybersecurity research focused on innovation, scalability, and societal impact.

★ Research & Academic Contributions

- Published 15+ peer-reviewed research papers in leading journals including IEEE Access, IEEE Open Journal of the Computer Society, Elsevier, MDPI, Springer Nature, and Tech Science Press.
- Research spans Artificial Intelligence, Machine Learning, Cybersecurity, Health Informatics, Energy Forecasting, and Sustainable Systems.
- Authored AI-driven studies on Parkinson’s, Alzheimer’s, Diabetes, Cardiovascular, and Skin Cancer detection in medical imaging.
- Contributed to AI-based cybersecurity, cryptocurrency fraud detection, and e-commerce analytics.
- Reviewer for Elsevier journals: *Computers & Electrical Engineering* (2 reviews) and *Biomedical Signal Processing and Control* (4 reviews).
- Also served as Reviewer for PLOS ONE and Journal of Alzheimer’s Disease (IOS Press).
- Holder of a UK Patent in computer science innovation.
- Advocate of open-access and reproducible research, maintaining public GitHub repositories for datasets and code.
- Research cited across AI, healthcare, cybersecurity, and sustainability domains.
- Oral presentation at ICECET 2025 (Paris).
- Presentation at IEEE ICMI 2025 (Central Michigan University).
- Presentation at ICSCSS 2025 (India).

🎓 Education

MS in Computer Science , California State University, Los Angeles CGPA: 3.02/4.00	08/2023 – Present
B.Tech in Computer Science and Engineering , Lovely Professional University, Punjab, India CGPA: 7.39/10.0 (WES Evaluation: 3.31/4.00)	07/2018 – 08/2022
Higher Secondary (Science) , Notre Dame College, Dhaka, Bangladesh GPA: 5.00/5.00	06/2015 – 07/2017

Work Experience

Project Associate, Quantanite Bangladesh Ltd

02/2023 – 07/2023

Dhaka, Bangladesh

- Collected and organized data accurately from various sources.
- Ensured data quality by identifying and correcting errors.
- Analyzed data using statistical methods, created reports and visualizations.
- Focused on data security and privacy.
- Streamlined workflows and introduced automation for efficiency.

Web Developer Intern, Coursecab Pvt. Ltd

02/2022 – 07/2022

Dhaka, Bangladesh

- Designed responsive UIs with HTML, CSS, and JavaScript.
- Collaborated on innovative web application development.
- Followed coding best practices to deliver clean and efficient code.
- Participated in regular team meetings and agile stand-ups.
- Debugged and resolved defects promptly.

Technical Skills

Programming & Tools: Python, C++, JavaScript, HTML, CSS, Git, Linux, LaTeX, Jupyter Notebook, Google Colab

Machine Learning & AI: TensorFlow, PyTorch, scikit-learn, Keras, CNN, LSTM, Vision Transformers, PCA, UMAP, Genetic Algorithms, Explainable AI (SHAP, LIME)

Data Science & Analytics: NumPy, pandas, Matplotlib, Seaborn, Plotly, Statistical Modeling, Data Visualization

Cybersecurity: Network Analysis, Threat Detection, Intrusion Detection, Secure Software Development, Cryptocurrency Fraud Detection

Health Informatics: AI-based Diagnosis for Parkinson's, Alzheimer's, Diabetes, Cardiovascular & Skin Diseases, Medical Imaging

Energy & Sustainability: ML for Energy Forecasting, EV Adoption Prediction, Bayesian Neural Networks, AI for SDGs

Databases & Cloud: MySQL, PostgreSQL, MongoDB, AWS, GCP, Docker

Certificates

- Coursera: Crash Course on Python, Open Source Software Development, Marketing in a Digital World
- HackerRank: Problem Solving (Basic)
- Cisco: Cybersecurity Essentials
- E-Box: Object Oriented Programming using Python Internship
- LPI: NDG Linux Essentials

Awards & Achievements

Best Intern Award, Coursecab Pvt. Ltd

05/2022

Awarded for outstanding performance as a Web Developer, delivering high-quality web solutions and demonstrating strong problem-solving skills.