

Kanchon Kumar Bishnu

AI Research Scientist | Software Engineer | Cybersecurity Enthusiast

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 R⁶ 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
• Collected and organized data accurately from various sources.	Dhaka, Bangladesh
• 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
• Designed responsive UIs with HTML, CSS, and JavaScript.	Dhaka, Bangladesh
• 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.	