

Vaskar Chakma

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EDUCATION

- **Chung-Ang University, College of Software, Dept. of Computer Science and Engineering** Seoul, Republic of Korea
Integrated Ph.D. Degree in Computer Science and Engineering (Big Data) 2025.09.01 - Present
Advisor: Professor Wooyeol Choi
- **Nantong University, School of Artificial Intelligence and Computer Science** Nantong, Jiangsu, China
Bachelor of Engineering Degree in Computer Science and Technology 2021.09.10 - 2025.06.19
GPA: 3.86/5.00, WES converted: 3.37/4.0, Ranking: 2/32
Thesis: CardioForest: An Explainable Ensemble Learning Model for Automatic Wide QRS Complex Tachycardia Diagnosis from ECG
Advisors: Professor Gao Zhan, Professor Xiaolin Ju

SKILLS SUMMARY

- **Programming:** Python, C, MATLAB, [Web Dev: HTML/CSS/JS]
- **AI/ML:** TensorFlow, PyTorch, Scikit-learn, Keras, NumPy, Pandas, XAI [SHAP]
- **Tools:** Overleaf (Latex), MATLAB, Origin, Visual Studio Code, Google Colab, Git, Microsoft Office, Unity (Vuforia Engine), Nmap
- **Languages:** Chakma (Native), Bengali (Native), English (Advanced), Chinese (Intermediate), Hindi (Intermediate), Urdu (Intermediate), Korean (Fundamental)

EXPERIENCE

- **Chung-Ang University** Seoul, Republic of Korea
College of Software, School of Computer Science and Engineering
 - **Graduate Research Assistant (GRA):** Intelligent Networking Lab (INL) 2025.09 - Present
 - **Laboratory Assistant (LA):** Coding Bootcamp Lab [B208, R519] 2026.03 - 2027.02
 - **Teaching Assistant (TA):** (1) Programming Course (UG) [47710] 2025.09 - 2025.12
(2) Network Applications and Design (UG) [34579] 2026.03 - 2026.08
 - **Mentorship:** (1) Winter Undergraduate Research Program 2026.01 - 2026.02
(2) Summer Undergraduate Research Program 2026.07 - 2026.08
- **Nantong University** People's Republic of China
Student Counselor, School of International Education 2023.09.02 - 2025.06.19

ACADEMIC SERVICES

- **Subreviewer / External Reviewer** Duy Tan University, Da Nang, Vietnam
The 11th International Conf. on Next Generation Computing (ICNGC 2025) 2025.12.17 - 2025.12.20

RESEARCH PROJECTS

- **[PR] Research on Full-Stack Networking Technologies for 6G AI-Native NTN** Seoul, Republic of Korea
Funded by National Research Foundation of Korea (NRF) 2026.03 - 2029.02
- **[PR] BK21 FOUR (CAU Institute for Innovative Talent of Big Data)** Seoul, Republic of Korea
Funded by National Research Foundation of Korea (NRF) 2025.09 - 2027.08

JOURNAL PUBLICATIONS

- **[2026]: Vaskar Chakma**, Xiaolin Ju, Heling Cao, Xue Feng, Ji Xiaodong, Pan Haiyan, and Gao Zhan. 'CardioForest: An Explainable Ensemble Learning Model for Automatic Wide QRS Complex Tachycardia Diagnosis from ECG'. Journal of Intelligent Medicine and Healthcare, 4(1), 37–86. [DOI: 10.32604/jimh.2026.075201]
- **[2026]: Vaskar Chakma**, MD Jaheid Hasan Nerab, Abdur Rouf, Abu Sayed, Hossem MD Saim, and Md Nournabi Khan. 'Machine Learning Models for Predicting Smoking-Related Health Decline and Disease Risk'. Journal of Intelligent Medicine and Healthcare, 4(1), 1–35. [DOI: 10.32604/jimh.2026.074347]
- **[2025]:** Ju Xiaolin, Yi Cao, Xiang Chen, Lina Gong, **Vaskar Chakma**, and Xin Zhou. 'JIT-CF: Integrating Contrastive Learning with Feature Fusion for Enhanced Just-in-Time Defect Prediction'. Information and Software Technology, 182 (2025): 107706. [DOI: 10.1016/j.infsof.2025.107706]
- **[2025]:** Zhou ZhiGuang, Jagaran Chakma, Md Ahatasamul Hoque, **Vaskar Chakma**, and Asif Ahmed. 'Prediction of UHPC Mechanical Properties Using Optimized Hybrid Machine Learning Model with Robust Sensitivity and Uncertainty Analysis'. Materials Research Express 12, no. 8 (2025): 085703. [DOI: 10.1088/2053-1591/adf8c4]
- **[2025]:** Xiaolin Ju, **Vaskar Chakma**, Misbahul Amin, and Arkhid Chakma Joy. 'What Drives House Prices? A Linear Regression Approach to Size, Condition, and Features'. Journal of Artificial Intelligence & Data Mining, 13(1), 41-51, 2025. [DOI: 10.22044/jadm.2025.15529.2668]
- **[2025]: Vaskar Chakma**, Amin Misbahul, Rouf Abdur, Suruj Al Mahmud, Mia Raju, and Rafid Mustavi. 'From Margins to Mainstream: Can Artificial Intelligence (AI) Reshape Governance for Chittagong Hill Tracts Indigenous Communities?'. EJTAS, 3(1), 166-178, 2025. [DOI: 10.59324/ejtas.2025.3(1).16]

CONFERENCE PUBLICATIONS

- **International Conferences:**

- [ICUFN'26]: **Vaskar Chakma**, and Wooyeol Choi. 'Self-Directed Spectrum Allocation Framework for Integrated TN-NTN 6G Networks'. The 17th International Conference on Ubiquitous and Future Networks, Milan, Italy [July 7 - 10, 2026] [DOI: 10.1109/ICUFN69619.2026.11628659]
- [ICAHC'26]: **Vaskar Chakma**, Seong-Yong Moon, and Wooyeol Choi. 'Deep Learning-Based Traffic Prediction for Non-Terrestrial Networks: A Hybrid Satellite-UAV Approach'. The 8th International Conference on Artificial Intelligence in Information and Communication, Tokyo University of Science, Tokyo, Japan [February 24 - 27, 2026] [DOI: 10.1109/ICAHC68212.2026.11454384]
- [ICTC'25]: **Vaskar Chakma**, and Wooyeol Choi. '6G Enabled Digital Twin Framework for Real-Time Cyber-Physical Systems'. ICTC Workshop on Big Data, CPS, and 5G & 6G Communication Networks (IWBCN), Jeju, Republic of Korea [October 14 - 17, 2025]

- **Domestic Conference:**

- [JCCI'26]: **Vaskar Chakma**, and Wooyeol Choi. 'RAN-Aware Adversarial Training Closes the Robustness Gap in Near-RT RIC Handover Control', The 36th Joint Conference on Communications and Information, The Ocean Resort, Yeosu, Republic of Korea [April 15 - 17, 2026] [DOI: 10.5281/zenodo.18870997]

INVITED TALK

- [CAU Talk'26] Graphic Deep Reinforcement Learning for Dynamic Resource Allocation in Space-Air-Ground Integrated Networks

ACADEMIC PROJECTS

- [RefCheck] Citation Integrity Verifier
- [Chrome Web Store] Research Tracker (Browser Extension)
- Artificial Intelligence and Embedded Systems [Machine Learning, Scikit-Learn, OpenCV, Golden Gourd IDE]
- Note Taking App [C#, .NET Framework]
- CompNet- Cisco Packet Tracer Based Project [Computer Networking]

AWARDS

- [Jun. 2026] President's *Excellence Award and the People's Choice Award* - Chung-Ang University 3MT Competition
- [Jul. 2024] Outstanding Student, '*Space, Sky, Land, and Sea Integrated Network Summer School*' - Nantong University
- [Nov. 2023] Top 3 in *Chinese Proficiency Test* – Nantong University

SCHOLARSHIPS

- [CAU] **Chung-Ang University:**
 - [1] Chung-Ang University Young Scientist Scholarship (CAYSS)
 - [2] Industry-Academic Cooperation Foundation Scholarship
 - [3] Brain Korea-21 Graduate School Innovation Scholarship
- [HUST-2025] *Chinese Government Scholarship*, accepted as a Master's Student (CST), Huazhong University of Science and Technology (HUST), People's Republic of China
- [Fudan-2025] *Shanghai Government Scholarship*, accepted as a Master's Student (Artificial Intelligence), Fudan University, People's Republic of China
- [NTU] *Nantong University Bachelor Scholarship*, Jiangsu Provincial Government, People's Republic of China

RESEARCH INTERESTS

AI-RAN (Radio Access Network), TN-NTN, Wireless Networking, Interdisciplinary Artificial Intelligence