# Vaskar Chakma

Portfolio: vaskarchakma.github.io
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## EDUCATION

- **Chung-Ang University, School of Computer Science and Engineering** — Seoul, Republic of Korea
  *Master's-Ph.D. Integrated Degree in Computer Science and Engineering (Big Data)* — 2025.09 - Current
  ***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 - 2025.06
  *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, 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

- **Graduate Research Assistant (GRA)** — Chung-Ang University, Seoul, Republic of Korea
  *Intelligent Networking Lab (INL), School of CSE* — 2025.09 - Current
  - **Research Focus**: AI-Radio Access Network, Non-Terrestrial Network

- **Teaching Assistant (TA)** — Chung-Ang University, Seoul, Republic of Korea
  *Department of Computer Science and Engineering* — 2025.09 - 2025.12
  - **Undergraduate Course**: Fall 2025 - Programming Course (UG) [47710]

- **Subreviewer / External Reviewer** — Duy Tan University, Da Nang, Vietnam
  *The 11th International Conf. on Next Generation Computing (ICNGC 2025)* — December 17-20, 2025

- **SIE Student Volunteer** — Nantong University
  *People's Republic of China* — 2023.09.02 - 2025.06.19

## PUBLICATIONS

- **[2026]**: **Vaskar Chakma**, Xiaolin Ju, Heling Cao, Xue Feng, Ji Xiaodong, Pan Haiyan, and Gao Zhan (2026). '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 (2026). '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]

## CONFERENCES

- **International Conferences**:
  - **[ICTC 2025]**: **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]
  - **[ICAIIC 2026]**: **Vaskar Chakma**, 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]

## PROJECTS

- 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]

## CERTIFICATIONS

- Top-3 in Chinese Proficiency Test [2023.11.18] (HSK4: 269/300) - Nantong University Center
- Outstanding Student, 'Space, Sky, Land, and Sea Integrated Network Summer School' - Nantong University
- Digital Khichuri Challenge 2022 [Cyber Bullying] (Finalist) - UNDP Bangladesh
- Explore and Analyze Data with Python - Microsoft
- Supervised Machine Learning: Regression and Classification - DeepLearning.AI, Stanford
- Automate Cybersecurity Tasks with Python - Google & Coursera

## SCHOLARSHIPS

- Chung-Ang University Young Scientist Scholarship (CAYSS) [Full Scholarship Awardee] - Brain Korea 21 (BK21) Research
- Accepted as a Master's Student (CST) [September 2025 to July 2027], Huazhong University of Science and Technology (HUST) [THE Ranking (2026): 176], School of Computer Science and Technology. Chinese Government Scholarship - [Full Scholarship Awardee], CSC No.: 2025SLJ016779
- Accepted as a Master's Student (Artificial Intelligence) [September 2025 to July 2028], Fudan University [THE Ranking (2026): 36], [SGS Full Scholarship Awardee] Application Number: C202509020032
- Nantong University Bachelor Scholarship, Issued by Jiangsu Provincial Government, People's Republic of China. Sep 2021 - Jun 2025

## RESEARCH INTERESTS

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