

Abanti Chakraborty Shruti

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Charlotte, North Carolina - 28213, USA

EDUCATION

- **University of North Carolina at Charlotte** August 2025 - 2030
PhD in Computing and Information Systems North Carolina, USA
- Grade: 4.00 / 4.00 (Ongoing)
- **Brac University** June 2024
Masters of Science (MSc.) in Computer Science and Engineering Dhaka, Bangladesh
- Grade: 4.00 / 4.00
- **Ahsanullah University of Science and Technology** August 2021
Bachelor of Science (BSc.) in Computer Science and Engineering Dhaka, Bangladesh
- GPA: 3.84 / 4.00

HONORS AND AWARDS

- **Graduate Research Engineering Poster Award - 2nd Prize** 2026
Graduate Research Symposium UNC Charlotte, NC, USA
- Poster Presentation award for presenting ongoing research work
- **Graduate Assistantship Support Plan (GASP) Award** 2025-2030
University of North Carolina at Charlotte, NC, USA 
- Tuition award and support package for eligible graduate students
- **Dean's List of Honor Award** 2021
Ahsanullah University of Science and Technology, Dhaka, Bangladesh
- Dean's award for students holding a CGPA of 3.75 or higher
- **100% Tuition Fee Waiver** 2022-2024
Brac University, Dhaka, Bangladesh
- Tuition Award for securing a CGPA of 4.00
- **50% Tuition Fee Waiver** 2018-2021
Ahsanullah University of Science and Technology, Dhaka, Bangladesh
- Tuition award given for achieving a top 3 position in each semester.
- **Special Mention All Girls Team** 2020
Dhaka International University, Dhaka, Bangladesh
- Award given for Project Display in Mujib Borsho IT Carnival'20
- **Project Showcase Runners Up** 2018
Ahsanullah University of Science and Technology, Dhaka, Bangladesh
- Award given for Project Display in Codeware'18 (Intra AUST Project Showcase Spring 18)

PROFESSIONAL APPOINTMENTS

- **Enosis Solutions**  October 2021 - June 2025
Senior Software Quality Assurance Engineer (Level-2) Dhaka, Bangladesh
- Requirement analysis on products
- Design, implement, and execute test plan and cases
- Estimate, prioritize, plan, and coordinate testing activities
- Develop Automation Scripts according to test case
- Perform Manual and Automation testing product with various testing techniques

RESEARCH INTERESTS

Software Quality Issues, Software Artifact Vulnerabilities, Natural Language Processing, Machine Learning, Deep Learning

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, W=WORKSHOP, P=PATENT, S=IN SUBMISSION, T=THESIS

- [S.1] A. C. Shruti, R. Krasniqi.(2026). **SecLogLabeler: A Hybrid LLM-based Framework for Fine-Grained Labeling of Security-Related Code Logs**. In *The IEEE/ACM Automated Software Engineering (ASE)*, 2026, Munich, Germany
- [W.1] R. Krasniqi, A.C. Shruti (2026). **Latent Security Threats in Modern Software Code Logs**. In *The 1st International Workshop on Software Engineering for and with Trustworthy LLMs (LLMTrust 2026)*. Co-located with FSE'26, Montreal, Canada. - [Accepted for Publication](#)
- [C.1] A. C. Shruti, R. Krasniqi. (2026). **A Systematic Methodology for Ground Truth Dataset Construction: Annotating Security in Code Logs**. In *International Conference on Evaluation and Assessment in Software Engineering (EASE)*, 2026 edition. Glasgow, UK. - [Accepted for Publication](#)
- [C.2] A. C. Shruti, et al. (2025). **Comparison of Machine Learning Models for Early Prediction of Diabetes with LIME Interpretability**. In *18th International Conference on Information Technology and Applications (ICITA 2024)*, Lecture Notes in Networks and Systems, vol 1248. Springer, Singapore. DOI: 10.1007/978-981-96-1758-6_3
- [C.3] A. C. Shruti, et al. (2024). **DetectPLD: A Federated CNN Approach for Collaborative Potato Leaf Disease Detection**. In *2024 IEEE World AI IoT Congress (AIoT)*, pp. 0185-0191. IEEE. Seattle, WA, USA. DOI: 10.1109/AIIoT61789.2024.10578980
- [C.4] A. C. Shruti, et al. (2023). **Privacy-Preserving Knee Osteoarthritis Classification: A Federated Learning Approach with GradCAM Visualization**. In *2023 26th International Conference on Computer and Information Technology (ICCIT)*, pp. 1-6. IEEE. Cox's Bazar, Bangladesh. DOI: 10.1109/ICCIT60459.2023.10441001
- [C.5] A. C. Shruti, et al. (2023). **ACSMKRHR at SemEval-2023 Task 10: Explainable Online Sexism Detection(EDOS)**. In *Proceedings of the 17th International Workshop on Semantic Evaluation (SemEval-2023)*, pp. 724–732. Association for Computational Linguistics, Toronto, Canada. DOI: 10.18653/v1/2023.semeval-1.99
- [C.6] A. C. Shruti, et al. (2023). **Multi-criteria Decision Theoritic Approach for Tour Package Selection using Fuzzy AHP and TOPSIS Methods: A Case Study on Cox's Bazar**. In *2023 IEEE 8th International Conference for Convergence in Technology (I2CT)*, pp. 1-7. IEEE. Lonavla, India. DOI: 10.1109/I2CT57861.2023.10126334
- [C.7] A. C. Shruti, et al. (2023). **A Comparative Study on Bengali Speech Sentiment Analysis Based on Audio Data**. In *2023 IEEE International Conference on Big Data and Smart Computing (BigComp)*, pp. 219-226. IEEE. Jeju, Republic of Korea. DOI: 10.1109/BigComp57234.2023.00043
- [T.1] A. C. Shruti, et al. (2024). **Into the Heart of Bangla Speech: Advancing Speech Sentiment Recognition with Semi-Supervised Multimodal Machine Learning Model Leveraging Iterative SHAP-based Feature Selection**. Masters thesis. Introduced a multimodal Bangla speech sentiment recognition method considering three modalities- Audio, Text and Image using Early and Late Fusion Techniques. Proposed a semi-supervised learning based ML model to recognize Bengali speech sentiment.
- [T.2] A. C. Shruti, et al. (2021). **Memory-based Collaborative Filtering by Finding the Experts**. Undergraduate thesis. We have tried to identify and modify the basic collaborative filtering(CF) algorithm problems by integrating our designed expert-identifying algorithm. We have also reduced the dimensionality of the basic CF algorithm in our proposed solution.

PRESENTATIONS

C=CONFERENCE, J=JOURNAL, W=WORKSHOP, P=POSTER, T=THESIS

- [P.1] A. C. Shruti, R. Krasniqi.(2026). **SecLogLabeler: A Hybrid LLM-based Framework for Fine-Grained Labeling of Security-Related Code Logs**. In *Graduate Research Symposium, UNC Charlotte*, 2026
- [C.1] A. C. Shruti, et al. (2023). **Multi-criteria Decision Theoritic Approach for Tour Package Selection using Fuzzy AHP and TOPSIS Methods: A Case Study on Cox's Bazar**. In *2023 IEEE 8th International Conference for Convergence in Technology (I2CT)*, pp. 1-7. IEEE. Lonavla, India. DOI: 10.1109/I2CT57861.2023.10126334

TEACHING EXPERIENCE

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University of North Carolina at Charlotte 

Graduate Teaching Assistant

Course: ITIS3300: Software Requirement, Analysis and Test

* Help students with course activities

* Assist Faculty in organizing and conducting course content

* Grade student assessments

August 2025 - Ongoing

NC, USA

Courses: Computer Networks and Introduction to Programming with C

- * Plan, prepare, and conduct assigned courses and lectures
- * Implemented the designated curriculum in due time
- * Implemented effective classroom practices

SPOKEN LANGUAGES

- English [IELTS Overall 8.0 (L:9, R:8.5, W:6.5, S:7)]
- Bangla

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java, C#, MySQL, PHP, SQLite, PL/SQL, JavaScript, Objective C
- **Operating Systems:** Windows, MacOS, Ubuntu
- **Designing Tools:** HTML, CSS
- **Frameworks:** Bootstrap, Dot Net
- **Data Science & Machine Learning:** Scikit Learn, Pandas, Numpy, PyTorch, Tensorflow
- **Issue tracking tool:** Jira, Digital AI
- **Workspace Collaboration Tool:** Confluence
- **Automation Tools:** Cypress, Postman, Selenium, Robot(Basic)
- **IDE:** Google Colab, Jupyter Notebook, CodeBlocks, NetBeans, PyCharm, Android Studio, VSCode, MS Visual Studio, Arduino, MATLAB, XCode, Proteus, MS SQL Server, Sublime Text, emu8086
- **Other Tools & Technologies:** Latex, Microsoft Office, Adobe Photoshop, Google Office Tools

CERTIFICATIONS AND PARTICIPATION

- Participated in 2026 CRA-WP Grad Cohort Workshop
- CIRTification: Community Involvement in Research Training
- Certification in CITI Program Course: Data or Specimens Only Research (IRB)
- Training for Mobile Application Developer (iOS) from Digicon Technologies.
- Deep learning course from Deeplearning.ai from Coursera.
- Python for Everyone course from the University of Michigan from Coursera.
- Introduction to Data Science in Python from DataCamp
- Introduction to Importing Data in Python from DataCamp
- Cleaning Data in Python from DataCamp
- Machine Learning with Tree-Based Models in Python from DataCamp
- Cluster Analysis in Python from DataCamp
- Participated in Several Software Showcasing Competitions.