

# JENIYA SULTANA

## PROFESSIONAL SUMMARY

With a strong academic background and research experience in Computer Science, I am confident in my ability to contribute to the advancement of technology. Holding Bachelor's and Master's degrees, two peer-reviewed publications, and experience as a graduate assistant with CODERS and ROSE Grant, I am eager to bring my expertise to the team. My goal is to apply cutting-edge technologies to develop innovative solutions, particularly in IoT, artificial intelligence, machine learning, computer vision and computer science education, to achieve impactful results.

## EDUCATION

**Master of Science in Computer Science**, Expected in 07/2024  
Missouri State University - Springfield, MO  
CGPA- 3.86/4.00

**Graduate Certificate in Software Engineering**, 05/2024  
Missouri State University - Springfield, MO  
CGPA- 4.00/4.00





**Bachelor of Science in Computer Science and Engineering**, 12/2019  
Chittagong University of Engineering and Technology - Bangladesh  
CGPA - 3.51/4.00

## WORK HISTORY

**Graduate Assistant**, 08/2022 - Current  
Computer Science Opportunities, Development, and Education in Rural Schools (CODERS) Project, Springfield, MO

- Developed curriculum and instructional materials for K-12 teachers
- Conducted hands-on training with tools like Micro:bit, Scratch, and drones
- Organized workshops and computer science Olympiads

**Graduate Assistant**, 06/2023 - 07/2023  
Computer Science Research Opportunity for Smart Environments (ROSE), Springfield, MO

-  Springfield, Missouri 65806
-  417-414-4186
-  Jeniya1378@MissouriState.edu
-  linkedin/jeniyasultana/

## AWARDS

- Graduate College Thesis Funding Award, FA2023
- Bears Spotlight, Computer Science Blog ([Jeniya Sultana - Spotlight](#))
- Presenter at the 30th and 31st Annual Frank Einhellig Graduate Interdisciplinary Forum
- Best Thesis Award for undergrad research at CUET
- Second Runner-Up, NCPC (Programming Contest) among female candidates

## PROJECTS

- Dynamic Context Detection from Spoken Text and Voice Command in Home Automation System.
- Context Recognition from Voice Commands in Smart Home.
- Application of Metamorphic Testing for Verification of Neural Network Model in Home Automation System.
- Students Attention Monitoring System using Facial Landmark Points.
- Research Paper Classification: A Neural Network Approach with Feature Selection and TF-IDF.
- Text Analysis: An end-to-end general-purpose easy-to-use thematic and sentiment analysis tool.

- Assisted STEM teachers with computer science concepts and research projects
- Supported teachers in preparing research posters and presentations

**Lecturer, Computer Science, 11/2021 - 08/2022**

Bangladesh University of Textiles, Dhaka, Bangladesh

- Taught computer programming to undergraduate students
- Managed academic tasks and assessments

**Private Tutor, 01/2015 - 10/2021**

Bangladesh

Tutored Math, ICT, and Chemistry for 12th grade students.

**PUBLICATIONS**

- A Framework for Context Recognition from Voice Commands and Conversations with Smart Assistants, **Jeniya Sultana**, Razib Iqbal, 2024 IEEE 21st Consumer Communications & Networking Conference (CCNC), IEEE, 2024, pp. 218-221.
- Misinformation Detection in Cyber Smart Cities, Anupom Mondol, **Jeniya Sultana**, Mohiuddin Ahmed, ANM Bazlur Rashid, Cybersecurity for Smart Cities: Practices and Challenges, Springer International Publishing, 2023, pp. 105-120.

**REFERENCES**

- Dr. Mohammed Y. Belkhouche, Assistant Professor, Department of Computer Science  
417-836-5789, YassineBelkhouche@MissouriState.edu
- Dr. Razib Iqbal, Associate Professor, Department of Computer Science  
417-836-4944, RIqbal@MissouriState.edu
- Missy Poort, Academic Administrative Assistant II, Department of Computer Science  
417-836-6299, MissyPoort@MissouriState.edu
- Dr. Lloyd A. Smith, Professor, Department of Computer Science,  
417-836-4834, LloydSmith@MissouriState.edu
- Dr. Songfeng Zheng, Professor, Department of Mathematics,  
417-836-6037, SongfengZheng@MissouriState.edu

- Developing a tracking system for human with carried baggage based on Mean Shift and Particle Filter algorithm aided with Sliding Window Detection.
- Crude Oil Price Prediction.

**SKILLS**

C, C++, Algorithm and Data Structure, Large Language Model, Numpy, Matplotlib, Pandas, Tensorflow, Data Analysis, Object Oriented Programming, Software Quality Assurance, Software Testing, Human Computer Interaction, Web Development, WordPress, Python-OpenCV, Java, HTML & CSS, PHP & MySQL, NodeJS, ExpressJS, MongoDB.

Microsoft Office, Paint, Photoshop, Illustrator.

**TRAINING**

- Web Strategy and Development Training [Missouri State University]
- Social-Behavioral-Educational Researchers Training, Human Research [CITI Program]
- CCNA [IICT, CUET]
- Graphic Design [Brain Tuners]
- Web Development [IICT, CUET and Udemy]
- Ethical Hacking [Udemy]
- App Development [Udemy]
- Industrial Attachment training at BBTS in 2019.