Sabah Shahnoor Anis

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SUMMARY OF QUALIFICATIONS

I earned my Master's degree in Computer Science from the University of South Carolina with a certification in artificial intelligence. Working as a graduate research assistant for over 2 years, I have acquired strong technical expertise in AI/ML. I'm passionate about applying my AI/ML knowledge to architect high-quality, reliable, and cost-efficient solutions that meet customer needs.

SKILLS

- Proficient in advanced Python programming and familiar with Java, C/C++, JavaScript, C#, MATLAB
- Excellent foundational understanding of architectural concepts and algorithms such as machine learning, deep learning, reinforcement learning, generative AI, large language models, natural language processing, and multimodal AI
- Experienced in AI/ML model development using toolkits: TensorFlow, PyTorch, Numpy, Scipy, Scikit-learn, and Git
- Demonstrated strong capabilities in developing original research agendas in AI/ML research with self-developed code
- Expert in designing experiments, statistical analysis, data processing, management, and analysis of large, complex datasets
- Strong capabilities in problem-solving, creative thinking, formal writing, and presenting research findings

EDUCATION

Master of Science in Computer Science | University of South Carolina — Jan 2023 - Aug 2025

Bachelor of Science in Computer Science and Engineering | BRAC University — May 2017 - Dec 2021

WORK EXPERIENCE

Graduate Research Assistant | Artificial Intelligence Institute of UofSC (AIISC) — Jan 2023 – Aug 2025

- Developed an automated detection and deep learning-based clustering pipeline for rodent Ultrasonic Vocalization (USV) in Post Traumatic Stress Disorder (PTSD) research
- Automated data pre-processing, cleaning, and analysis in multiple projects such as USV and Sleep Spindle detection and analysis
- Paper presented at the 7th International Conference on Advances in Signal Processing and Artificial Intelligence (ASPAI' 2025)
- Taught as a graduate teaching assistant at the SC INBRE Bioinformatics/Data Science Summer Workshops 2025
- Presented poster on USV Analysis research at the 2024 Discover USC

Research Intern | Artificial Intelligence Institute of UofSC (AIISC) — Jul 2022 – Nov 2022

- Developed skills in data science, machine learning, and data analysis
- Achieved certification for completing a Python course in Mimo

Technical Product Analyst | InsideMaps Inc — Jun 2022 - Nov 2022

- Idiated and designed road maps during product development phases utilizing the Jira Scrum Board
- Tested and validated products for multiple projects using strengths, weaknesses, opportunities, and threats (SWOT) analysis
- Developed and utilized REST APIs as well as designed Mobile App User Interface
- Collaborated in multiple teams consisting of developers, analysts, and managers to complete projects within tight deadlines

ACADEMIC & INDIVIDUAL PROJECTS

Undergraduate Thesis Research | BRAC University — May 2020 – Oct 2021

- Developed a model that generates real-time character animation for biped locomotion in Unity ML agents using Reinforcement learning and Imitation learning algorithms
- Published a paper for the thesis research on IEEE Xplore: *https://doi.org/10.1109/ICIEVicIVPR52578.2021.9564143*

Microprocessor Course Project | BRAC University — Sep 2019 – Feb 2021

- Designed a hardware sample of a wheelchair (miniature) with integrated software features; the proposed wheelchair is battery-powered and uses an Arduino microcontroller to operate
- Published a paper for the Microprocessor project on Springer: *https://doi.org/10.1007/978-3-030-68452-5_13*

EXTRACURRICULAR ACTIVITIES

- Volunteered at the Summer AI Camp for High School Students and AIISC Retreat — June, October 2023