Sloke Shrestha

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Website: https://slokeshrestha26.github.io GitHub: https://github.com/slokeshrestha26

EDUCATION

University of Texas at Austin

Austin, TX

MS/PhD in Electrical and Computer Engineering | Advisor: Dr. Edison Thomaz Affiliated to Wireless Networking and Communications Group (WNCG) Aug. 2022 - May 2027

The University of Texas at Tyler

Tyler, TX

Bachelor of Science in Electrical Engineering; GPA: 3.9/4.0

Aug. 2018 - May 2022

Research Interests: Human Centered Computing, Ubiquitous Computing, Health Monitoring

EXPERIENCE

The University of Texas at Austin, Graduate Research Assistant

Austin, TX

Human Signals Lab

Aug 2022 - Present

- Built Mobile applications in iOS using Swift and Xcode platform to run experiments related to concerning smartphone user interaction inference using passive sensing
- Collaborated with two undergraduate research assistants to review papers and design experiments

The University of Texas at Tyler, Undergraduate Research Assistant

Tyler, TX

Predictive Analytics Lab

May 2019 - May 2022

- Developed machine learning training pipeline using Python. The pipeline automated data preprocessing which quadrupled work productivity
- Led weekly machine learning workshops where I helped five students and researchers understand machine learning literature better
- Collaborated with MDs, Ph.Ds, engineers, and business executives to bring an experimental wearable health framework, RAE Health, to the market

Massachussets Institute of Technology (MIT), Visitng Research Assistant

Cambridge, MA

Computer Science & Artificial Intelligence Laboratory

Mar. 2021 - Dec. 2021

- Benchmarked an image reconstruction algorithm and quantified the image fidelity of a Tomography visualization app, in a toolkit called EIT-kit, using Swift and Python
- Implemented a partial differential equation solver in Swift which was used in the visualization app

TEACHING

Laboratory Assistant, The University of Texas at Tyler

Tyler, TX

Supervisor: Premananda Indic | EENG 3104: Linear Circuits I

Jan. 2021 - May 2021

SKILLS

Languages: Python, MATLAB, C, Swift, Java

Frameworks: Scikit-Learn, Pandas, Numpy, Xcode, Tensorflow, Keras, PyTorch

Tools: GitHub, Shell(Bash, Zsh), Linux

AWARDS AND HONORS

2022
2018 - 2020
2022
2020
2019 - 2020
2018

PUBLICATIONS

- 1. Sloke Shrestha, Joshua Stapp, Melissa Taylor, Rebecca Leach, Stephanie Carreiro, Premananda Indic. (2023) Towards device agnostic detection of stress and craving in patients with substance use disorder. Proceedings of the 56th Annual Hawaii International Conference on System Sciences. (p. 3156-3163)
- Stephanie Carreiro, Melissa Taylor, Sloke Shrestha, Megan Reinhardt, Nicole Gilbertson, and Premananda Indic. Realize, analyze, engage (rae): A digital tool to support recovery from substance use disorder. Journal of psychiatry and brain science, volume 6. NIH Public Access, 2021
- 3. Stephanie Carreiro, Keerthi Kumar Chintha, Sloke Shrestha, Brittany Chapman, David Smelson, and Premananda Indic. Wearable sensor-based detection of stress and craving in patients during treatment for substance use disorder: A mixed methods pilot study. Drug and alcohol dependence, volume 209, page 107929. Elsevier, 2020.

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