

Sloke Shrestha

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EDUCATION

- **University of Texas at Austin** Austin, TX
PhD in Electrical and Computer Engineering; Advised by Dr. Edison Thomaz Aug. 2022 – May 2027 (expected)
 - **The University of Texas at Tyler** Tyler, TX
Bachelor of Science in Electrical Engineering; GPA: 3.9 Aug. 2018 – May 2022
- Research Interests: Human Centered Computing, Ubiquitous Computing, Health Monitoring

EXPERIENCE

- **Undergraduate Research Assistant, The University of Texas at Tyler** Tyler, TX
Predictive Analytics Lab / Advisor: Premananda Indic May 2019 - May 2022
 - Developed machine learning training pipeline and trained models to detect drug craving events in patients with substance use disorder.
 - Reviewed data fidelity from commercial wearable sensors, enabling important decision making during clinical trials.
 - Led weekly machine learning workshops which educated students and researchers about the technology.

This work resulted in two publications.
- **Visiting Student Researcher, Massachusetts Institute of Technology** Cambridge, MA
Computer Science & Artificial Intelligence Laboratory / Advisor: Stefanie Mueller Mar. 2021 - Dec. 2021
 - Benchmarked image reconstruction algorithm and demonstrated the image fidelity of mobile Electrical Impedance Tomography visualization application.
 - Implemented Gauss - Newton Solver, a partial differential equation solver, in Swift, adding a feature to a toolkit.

TEACHING

- **Laboratory Assistant, The University of Texas at Tyler** Tyler, TX
Supervisor: Premananda Indic / EENG 3104: Linear Circuits I Jan. 2021 - May 2021

AWARDS AND HONORS

- UT Austin Engineering Fellowship, University of Texas at Austin 2022
- Presidential Fellow Scholarship, The University of Texas at Tyler 2018 - 2020
- Tapia Scholarship, Richard Tapia '21 Conference 2022
- Autodesk Tapia Scholarship, Richard Tapia '20 Conference 2020
- President's Honor Roll, The University of Texas at Tyler 2019-2020
- Dean's List, The University of Texas at Tyler 2018

PUBLICATIONS

1. 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
2. Stephanie Carreiro, Keerthi Kumar Chintla, **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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