

# Sloke Shrestha - CV

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GitHub: <https://github.com/slokeshrestha26>  
Webpage: [slokeshrestha26.github.io](https://slokeshrestha26.github.io)

## EDUCATION

**Bachelor of Science in Electrical Engineering (B.S.E.E).**

**2018 – 2022**

**Minor in Mathematics**

**(anticipated)**

The University of Texas at Tyler

Major GPA: 4.0/4.0

Cumulative GPA: 3.96/4.0

## RESEARCH INTERESTS

Human Computer Interaction, Health Monitoring, Ubiquitous Computing

## PUBLICATIONS

- [1] Carreiro S, Taylor M, **Shrestha S**, Reinhardt M, Gilbertson N, Indic P. Realize, Analyze, Engage (RAE): A digital tool to support recovery from substance use disorder. *J Psychiatry Brain Sci*. 2021
- [2] Carreiro S, Chintla KK, **Shrestha S**, Chapman B, Smelson D, Indic P. 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*. 2020, 107929

## IN PREPARATION

- [3] **Shrestha S**, Taylor M, Leach R, Carreiro S, Indic P. Detection of craving and stress in patients with substance use disorder using wearable sensor data using Machine Learning
- [4] VNNSA Amperayani, **Shrestha S**, Colm T, Ambalavanan N, Indic P. Machine Learning Algorithms for the Prediction of Bradycardia Risk in Preterm Infants

## RESEARCH EXPERIENCE

### Visiting Student

**Summer 2021 - Present**

EECS, CSAIL, Massachusetts Institute of Technology

Advisor: Professor Stefanie Mueller

- Performing benchmark tests for image reconstruction algorithms.
- Adding more features for Electrical Impedance Tomography (EIT) mobile visualization API.
- Exploring and using image reconstruction API.

### Undergraduate Research Assistant

**Summer 2019 - Present**

Department of Electrical Engineering, The University of Texas at Tyler

Advisor: Professor Premananda Indic

- Developing Machine learning Algorithms. Increased accuracy by 20 percent [1,2].
- Developing feature extraction pipeline for Machine Learning.
- Collaborating and coordinating with MDs, PhDs, and industry professionals.
- Reviewing data fidelity from smartphone app and wearable sensor data used in clinical trials.

## TEACHING EXPERIENCE

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### Laboratory Assistant, Linear Circuits

Spring 2021

*Department of Electrical Engineering, The University of Texas at Tyler*

*Supervisor: Professor Premananda Indic*

- Presented hands on circuit implementation to a class of about 10.

### PASS Tutor

Spring 2019

*Academic Success, The University of Texas at Tyler*

- Tutored about 15 students every week for Chemistry, Physics, and Calculus.

## AWARDS AND HONORS

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Autodesk Tapia Scholarship, Richard Tapia '20 Conference

2020

President's Honor Roll, The University of Texas at Tyler

2019 - Present

Dean's List, The University of Texas at Tyler

2018

Presidential Fellow Scholarship, The University of Texas at Tyler

2018 - 2022

(Full tuition, fees, books, room and board covered)

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

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Vice President, UT Tyler IEEE Corona Chapter

2021 - Present

Junior Representative, UT Tyler IEEE Corona Chapter

2020 - 2021

IEEE (Student Member)

2019 - Present

## LANGUAGES

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English: Proficient

Nepali: Proficient

Hindi: Fluent

LAST MODIFIED: October 13, 2021