4 +1 (737) 484 6685 ⊠ skeshari@utexas.edu

Shuvam Keshari

Austin, Texas 9 Mv website ☑

EDUCATION

The University of Texas at Austin, Master of Science, Electrical and Computer Engineering (GPA: 3.8/4) May 2024 IIT Kharagpur, Bachelor of Tech. (Honors), Electrical Engineering, Minor in CS (GPA: 8.8/10)

July 2020

PUBLICATIONS

RESEARCH AND INDUSTRY EXPERIENCE

Texas Instruments: Systems Engineer

UT Austin Power Electronics Lab: Graduate Teaching Assistant (ECE462L & ECE394J)

Sept 2023 — Present

Advisor: Dr. Brian Johnson

Austin, Texas 9 May 2023 — August 2023

Internship - Optimized system performance by comparison of GaN and Si devices

Dallas, Texas 9

UT Austin CML: Graduate Research Assistant: Computer Vision/NLP

Nov 2022 — May 2023

Advisors: Dr. Dhiraj Murthy, Dr. Anna Wilkinson

Austin, Texas 9

- Developed Vision-based computational models/pipelines to identify mechanisms underlying electronic nicotine delivery system (ENDS)-related social media exposure and ENDS use among young adults
- Investigated social media data using Oracle Cloud (scraping), and deployed custom Yolo and BERT models (inference) to explore multi-modal ML techniques [Paper Presentation: SRNT, San Antonio]
- · Supervised undergraduate research assistants working on this project as part of the Computational Media Lab

Jaguar Land Rover

Sept 2020 — August 2022

Power Electronics Software Engineer

Coventry, United Kingdom 9

• Filed a patent (under review) for electric vehicle charging hardware and software

· Investigated Computer Vision R&D projects like driving assist technology and fault prediction for validation

IIT Kharagpur Rekhi Center: Undergraduate Research Assistant: Computer Vision

Jan 2020 — Sept 2020

Advisors: Dr. Manas K Mandal, Dr. Priyadarshi Patnaik

keshariS/EmotionAnalysis ₹

- · Designed an algorithm for measuring facial asymmetry and emotion incongruity from real time videos using CNNs.
- Developed an application using tkinter GUI library for a user-friendly interaction with the software.
- Enhanced accuracy of Facial emotion recognition model from 70% to 87% using custom datasets and AWS

ITC Limited: Operations Research Intern

May 2019 — July 2019

Skills - Data Analysis, Operations Management, Strategic Planning and Market Research

Mysuru, India 9

IIT Kharagpur EV Research Group Lead

Oct 2017 — Mar 2020

Advisor: Dr. Vikranth Racherla

Read: Official Vehicle Launch Story ✓

TECHNICAL SKILLS

LLMs, python (opency, keras, scikit-learn), C/C++, OCI, AWS, Git, HTML, CSS **Programming** Software CARLA Simulator, Jupyter, PyTorch, VS Code, MATLAB, ROS, PSIM, Cadence

RELEVANT COURSEWORK

Coursera Specializations Undergraduate

Generative AI, AI & Society, Applied ML, Advanced CV, Autonomous & Connected EVs Self Driving Cars (University of Toronto) || Deep Learning || Machine Learning (Stanford)

Advanced Image Processing, Machine Learning, Data Structures & Algorithms

AWARDS & HONORS

2023	Professional Development Award	(awarded by	y UT Austin ECE for conference presentati	on)
2023	Professional Development Award	(awarueu b	y o i Austiii ede ioi comerence presentati	•

Systems Society Award (Best B. Tech Thesis among Electrical, Energy and Instrumentation Engineering depts.) 2020

2019 Silver Trophy (Inter IIT Tech Meet 8.0, IIT Roorkee: Tech competition among 20 major IITs)

2016 KVPY National Fellow (funded by the Department of Science and Technology, Government of India)

[&]quot;Socioeconomic Bias in LLMs" | Singh S., Keshari S., (current)

[&]quot;Annotating sleep states in children from wrist-worn accelerometer" | Ram A., Sundar S.V.S., Keshari S., Jiang Z. (read here)

[&]quot;Stable Remaster: Bridging the Gap Between Old Content and New Displays" | Paull N., Keshari S., Wong Y. (read here)

[&]quot;Categorizing ENDS-related Tweets: using BERT Topic Modeling" | Murthy D., Keshari S., Arora S., Yang Q. (Submitted)

[&]quot;Decoding Brain Motor Imagery: with various Machine Learning techniques" | Jana G., Karnei C., Keshari S. (read here)

[&]quot;Large Cigar Detection in social media using YOLOv7" | Kong G., Keshari S., Ouellette R., Lee J., Murthy D. (Submitted)

[&]quot;Facial asymmetry: a Vision based behaviometric index for interview assessment" | Keshari S. et al., (read here)