Shuvam Keshari

EDUCATION

The University of Texas at Austin, Master of Science, Electrical and Computer Engineering (GPA: 3.8/4) **IIT Kharagpur,** Bachelor of Tech. (Honors), Electrical Engineering, Minor in CS (GPA: 8.8/10) May 2024 July 2020

PUBLICATIONS

"Socioeconomic Bias in LLMs" | Singh S., Keshari S., Jain V., Chadha A. (Amazon) (current)
"Annotating sleep states in children from wrist-worn accelerometer" | Ram A., Sundar S.V.S., Keshari S., Jiang Z. (read here)
"Stable Remaster: Bridging the Gap Between Old Content and New Displays" | Paull N., Keshari S., Wong Y. (read here)
"Categorizing ENDS-related Tweets: using BERT Topic Modeling" | Murthy D., Keshari S., Arora S., Yang Q. (Submitted)
"Decoding Brain Motor Imagery: with various Machine Learning techniques" | Jana G., Karnei C., Keshari S. (read here)
"Large Cigar Detection in social media using YOLOV7" | Kong G., Keshari S., Ouellette R., Lee J., Murthy D. (Submitted)

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

Research and Industry Experience

UT Austin Power Electronics Lab: Graduate Teaching Assistant (ECE462L & ECE394J) Advisor: Dr. Brian Johnson	Sept 2023 — Present Austin, Texas ♀
Texas Instruments: Systems Engineer Internship - Optimized system performance by comparison of GaN and Si devices	May 2023 — August 2023 Dallas, Texas ♀
 UT Austin CML: Graduate Research Assistant: Computer Vision/NLP Advisors: Dr. Dhiraj Murthy, Dr. Anna Wilkinson Developed Vision-based computational models/pipelines to identify mechanisms underlying electronic nicotine delivery system (ENDS)-related social media exposure and ENDS use amo 	
Investigated social media data using Oracle Cloud (scraping), and deployed custom Yolo and	esentation: SRNT, San Antonio]
 Jaguar Land Rover Power Electronics Software Engineer 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 	Sept 2020 — August 2022 Coventry, United Kingdom ♥
 IIT Kharagpur Rekhi Center: Undergraduate Research Assistant: Computer Vision Advisors: Dr. Manas K Mandal, Dr. Priyadarshi Patnaik Designed an algorithm for measuring facial asymmetry and emotion incongruity from real tir Developed an application using tkinter GUI library for a user-friendly interaction with the soft Enhanced accuracy of Facial emotion recognition model from 70% to 87% using custom data ITC Limited: Operations Research Intern Skills - Data Analysis, Operations Management, Strategic Planning and Market Research 	Jan 2020 — Sept 2020 keshariS/EmotionAnalysis ♥ ne videos using CNNs. tware.
IIT Kharagpur EV Research Group Lead	Oct 2017 — Mar 2020

Advisor: Dr. Vikranth Racherla

Read: Official Vehicle Launch Story 🗹

TECHNICAL SKILLS

Programming	LLMs, python (opencv, keras, scikit-learn), C/C++, OCI, AWS, Git, HTML, CSS
Software	<u>CARLA Simulator</u> , Jupyter, PyTorch, VS Code, MATLAB, ROS, PSIM, Cadence
RELEVANT COURSEWORK	κ
Graduate	Generative AI, AI & Society, Applied ML, Advanced CV, Autonomous EVs, DS/ Algorithms
Coursera Specializations	Self Driving Cars (University of Toronto) Deep Learning Machine Learning (Stanford)

Awards & Honors

2024	Texas Public Educational Grant scholarship (awarded by UT Austin)
2023	Professional Development Award (awarded by UT Austin ECE for conference presentation)
2020	Systems Society Award (Best B. Tech Thesis among Electrical, Energy and Instrumentation Engineering depts.)
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)