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Shuvam Keshari

Austin, Texas ♥ < My website >

EDUCATION

Master of Science, Electrical and Computer Engineering, UT Austin

Bachelor of Tech. (Honors), Electrical Engineering, Computer Science, IIT Kharagpur (8.76/10.00)

August 2022 — Present

July 2016 — July 2020

PUBLICATIONS

"Stable Remaster: Bridging the Gap Between Old Content and New Displays" | Paull N., Keshari S., Wong Y. (Read here)

RESEARCH AND INDUSTRY EXPERIENCE

Systems Engineer May 2023 — August 2023

Texas Instruments Dallas, Texas ♥

• Optimizing system performance by comparison of GaN and Si devices using TI's latest gate driver evaluation module

Graduate Research Assistant: Computer Vision/NLP

Nov 2022 — May 2023

Advisors: Dr. Dhiraj Murthy, Dr. Anna Wilkinson (UT Austin)

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 deploying 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

Power Electronics Software Engineer

Sept 2020 — August 2022

Jaguar Land Rover Bengaluru, India ♥

- Investigated Computer Vision R&D projects like driving assist technology and fault prediction for validation
- Filed a patent (under review) for electric vehicle charging hardware and software

Undergraduate Research Assistant: Computer Vision

Jan 2020 — Sept 2020

Supervisors: Dr. Manas K Mandal, Dr. Priyadarshi Patnaik (Rekhi Centre, IIT Kharagpur)

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

Bachelors dissertation: Charger Design for light Electric Vehicles

July 2019 — Mar 2020

Supervisor: Dr. Dipankar Debnath (Dept of EE, IIT Kharagpur)

Read: keshariS/charger4LightEVs ♥

< Official Vehicle Launch Story >

EV Research Group Lead

Oct 2017 — Mar 2020

Supervisor: Dr. Vikranth Racherla (CRR, IIT Kharagpur)

• Designed modular power and driver boards for implementing a BLDC motor controller and a charger

• Mentored sophomores/juniors about the prototypes and helped launch the startup Webber Electrocorp in Sept. 2019

TECHNICAL SKILLS

Programming Software

C/C++, python (opencv, keras, tkinter GUI), OCI, AWS, Git, HTML, CSS CARLA Simulator, Jupyter, PyTorch, VS Code, MATLAB, ROS, PSIM, Cadence

RELEVANT COURSEWORK

Coursera Specializations

Graduate

Applied Machine Learning, Advanced Computer Vision, Autonomous & Connected EVs Self Driving Cars (University of Toronto) || Deep Learning || Machine Learning (Stanford)

Undergraduate Advanced Image Processing, Machine Learning, Data Structures & Algorithms

AWARDS & HONORS

2020 Systems Society Award (Best Bachelors dissertation among 3 engineering departments)

2019 Silver Trophy (Inter IIT Tech Meet 8.0, IIT Roorkee)

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

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