८+1 (737) 484 6685 ⊠ skeshari@utexas.edu

Shuvam Keshari

Austin, Texas ♥ < My website >

EDUCATION

Master of Science, Electrical and Computer Engineering, UT Austin

August 2022 — Present

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

July 2016 — July 2020

RESEARCH AND INDUSTRY EXPERIENCE

Graduate Research Assistant: Computer Vision/NLP

Nov 2022 — Present

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

Austin, Texas ♥

- Currently developing Vision-based computational models/pipelines to identify mechanisms underlying electronic nicotine delivery system (ENDS)-related social media exposure and ENDS use among young adults
- Investigating 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]
- Supervising 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)

keshariS/charger4LightEVs 🖣

EV Research Group Lead

Oct 2017 — Mar 2020

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

< Official Vehicle Launch Story >

- · 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 (opency, keras, tkinter GUI), OCI, AWS, Git, HTML, CSS CARLA Simulator, Jupyter, PyTorch, VS Code, MATLAB, ROS, PSIM, Cadence

RELEVANT COURSEWORK

Graduate

Advanced Computer Vision, Autonomous & Connected EVs

Coursera Specializations Undergraduate Self Driving Cars (University of Toronto) | Deep Learning | Machine Learning (Stanford)

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)

LEADERSHIP & COMMUNITY OUTREACH

Astroclub Sub-Head, Space Technology Student's Society, IIT Kharagpur

Jan 2017 - Oct 2017

- Chief editor for 'Moonwalk' (Official Newsletter) and Manager of Space Technology Awareness Camp in Eastern India
- Organized a nationwide event 'National students space challenge' for students from over 100 universities across India

Social work in rural Kharagpur, National Service Scheme

July 2016 — Dec 2017

• Taught young primary school students and built a road for the rural village of Talbagicha

Kharagpur 9