REVATHI PRASAD

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EDUCATION

Master of Science in Electrical and Computer Engineering **August 2022-April 2024**
University of Southern California

Bachelor of Technology in Electrical and Electronics Engineering **August 2019-May 2019**
Mahindra University **GPA: 8.97/10**

SKILLS

- **Languages and Tools**: Python (Jupyter/Google Colab), MATLAB, MySQL (DBeaver), API Testing (Postman), Web Services JAX-RS (Eclipse), C++ (Visual Studio), Git Version Control, Unit Testing
- **Libraries and Frameworks:** Numpy, Scipy, Pandas, Sklearn, Matplotlib, Keras, OpenCV, GCP
- **Artificial Intelligence:** Tensorflow, PyTorch, MLOps, Neural Networks Architectures(NN)
- **Hardware:** Intel D435 Camera, NVIDIA Jetson Nano, NVIDIA Jetson Xavier
- **Behavioural:** Team Leadership, Strong Verbal and Written Communication, Strong Analytical Skills, Attention to detail

WORK EXPERIENCE

Model Designer, Risk Management **March 2022-August 2022**
Elseware, Remote

- Developed Model and Application to evaluate climate risks on a corporate credit risk portfolio.
- Led Data Wrangling, Feature Engineering, Transformation of 16000 data points for EMDAT database
- Collaborated for Webservices implementation using JAX-RS and Unit Testing on the Elseware Web Tool

Engineer, FaaS **August 2019-February 2022**
Mahindra & Mahindra, India

- **DiGiSENSE:** Developed and Optimized Tractor Usage Algorithm for Mobile Application using Big Query for DiGiSENSE CCU 3.0. Managed 50% of Backend Platform Support for DiGiSENSE CCU in UAT and Production and supported migration of micro-services Applications to Google Cloud Platform
- **Grape Harvester:** Developed accuracy of YOLO model trained on field images from Vineyards. Analyzed and evaluated performance of NVIDIA Jetson Nano vs NVIDIA Jetson AGX Xavier. (Awarded a SPOT award for focused contribution towards the project)
- **Autonomous Cotton Weeder**: Led the development of the CNN model for Cotton vs Weed Classification with a 95% accuracy on real-time data. Performed Intel D435 Camera Calibration and Actuation techniques through the master Embedded PC
- **Potato Roguing Robot:** Led the development of CNN model for healthy vs diseased leaves Classification with a 70% accuracy on real-time data. Performed data augmentation, Intel D435 Camera Calibration, and Actuation techniques through master Embedded PC. (Awarded 2 **SPOT awards** for a focused contribution towards the project)

INVOLVEMENT

- Inaugural fellow at AI Safety USC Fellowship
- Mentee at Women In Engineering (WIE), USC 2022
- Led the Oral presentation for Autonomous Weeder for Cotton Crop at SIAT 2021
  Autonomous Weeder for Cotton Crop: Revathi Prasad, Ayushmoy Roy, Aditya Rana, Divyang Talpada, Jagmeet Singh, Jayalakshmi Surendran, Saravanan Natarajan, Aadiv Shah, and Hari Nair
- Tutored STEM subjects to students at Aashray Home for Boys, 2020-21
- Headed the Outreach Club which organized social impact programs like Rural Development Project
- Co-Organised and Curated TEDxMahindraÉcoleCentrale 2017, 2018