Ayush Saklani

Mobile: +1-7345969245 | Email: saklaniayush99@gmail.com
| Linked In: /in/ayushsaklani | Address: Ann Arbor, Michigan

OBJECTIVE

To secure an internship in a dynamic and challenging environment, where I can utilize my education and skills in Machine Learning, Signal Processing, and my experience with Deep Learning techniques, to work on real-world projects that will help me gain hands-on experience and contribute to the growth and success of the company.

EDUCATION

University of Michigan Ann Arbor **April 2024**
Master of Science, Electrical Electronics & Computer Engineering, Signal Image Processing and Machine Learning
GPA: 3.65 / 4.0
Courses Taken:
Fall 22: Probability and Random Process, Matrix Methods for Signal Processing
Winter 23: Optimization method for signal Processing, Machine Learning, Project Management and Consulting

National Institute of Technology Hamirpur, India **May 2019**
Bachelor of Technology, Electronics and Communication Engineering
GPA: 9.08 / 10.0
Relevant Courses: Signal and Systems, Data Structures and Algorithms, Microcontroller and Microprocessor, Neural Networks, Communication Theory

SPECIALIZED SKILLS

Programming Languages: Java, Python, C++, MATLAB, Kotlin, Julia
Prototyping Platforms: ARM Cortex M0, Raspberry Pi, Arduino, ESP8266, ATMega328, 8085
Other Technologies: Keras, TensorFlow, Android, Pytorch, Fast ai

WORK EXPERIENCE (3 Years)

Accenture Solution Pvt Ltd, Bengaluru, **August 2019-July 2022**
Firmware and Embedded Engineering Senior Analyst

- **Interfaced** contactless EMV terminals to android devices and utilized them to process **EMV Cards on Canada's biggest transit system.**
- Designed and developed an interface between the terminal and application layer.
- **Automated Configuring and Upgrading the terminal remotely.**
- **Optimized card processing time by decreasing it from 1 seconds to less than 500 milliseconds**.

RESEARCH EXPERIENCE

Segmentation and Classification of Melanoma Disease, NIT Hamirpur **January 2019-May 2019**
Major Thesis

- Developed a computer vision model to identify melanoma on skin patches taken using the dermoscopic process.
- Used ResNext50, U-net architecture, and Fastai for transfer learning.
- Segmentation detects melanoma on skin patch and then Classifier classify melanoma into a specific disease.

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Anomaly Detection in Temporal Data, Know-Centre, TU Graz, Austria **May 2018- July 2018**
Summer Research Intern

- Used LSTM RNN to detect anomalies in temporal data to predict failures at an earlier stage in sensor array network.
- Designed and developed deep learning model to detect anomalies.
- Completed thesis on my work and compared it with other public datasets.

ENGINEERING PROJECTS

Know Center Data Science Challenge, NIT Hamirpur **October 2018**

- Participated in Data Science Challenge to detect NO_2 values in the dataset taken from vehicle sensors.
- Used Random Forest to detect NO2 values.
- Secured 8th position.

Face Recognition Using Deep Learning, NIT Hamirpur **September 2018–December 2018**

- Developed a model to detect face of person in each video or image and show it in real-time on screen.
- Used Openface with Pytorch backend and OpenCV.
- Submitted in Artificial Neural Network course and Nimbus 2018(Annual Technical Festival).

LEADERSHIP EXPERIENCE

Society for Promotion of Electronics Culture, NIT Hamirpur, *Network Head* **August 2018-May 2019**

- Organized various hackathons and workshops on campus for students.
- Organized a weeklong Deep Learning workshop.
- Volunteered in SPEC from 1st year of college.

TEDx NIT-H Chapter, NIT Hamirpur, Web Design Head **January 2019-May 2019**

- Designed website for TEDx NIT-H. Which contained information about all the distinguished guest speakers, venue, timings and ticket information.

VIBHAV (Technical Club E&CE Dept.), NIT Hamirpur, Co-Coordinator **August 2017-May 2018**

- Participated in Technical Festival with various projects.
- Organized various activities during Technical Festival to promote electronics culture and its advancements.
- Won Best Team in Nimbus 2018.