

Sundar Anand

sundara@andrew.cmu.edu ♦ (412)983-9712 ♦ <https://www.linkedin.com/in/sundaranand/>

EDUCATION

Carnegie Mellon University

Master of Science in Electrical and Computer Engineering – Applied Program Pittsburgh, PA
May 2022
Pattern Recognition Theory (18794), Interactive Data Science (05839), Introduction to Machine Learning for Engineers (18661), Advanced Probability and Statistics (18665), Computational Problem Solving for Engineers (18647)
GPA: 3.89/4

Vellore Institute of Technology

Bachelor of Technology in Electronics and Computer Engineering Chennai, India
June 2020
GPA: 8.83/10

SKILLS

General and Cloud Programming: Python, Amazon Web Services, Google Cloud Platform

Machine Learning: Python (For ML), Keras, TensorFlow, PyTorch, Computer Vision, Neural Networks, Time-Series

Software host platforms and database: Docker Container, Github, ElasticSearch, Postgres and SQL

PROFESSIONAL EXPERIENCE

Autodesk, inc

Data Engineer Intern – Customer Behavioural Data Analysis San Rafael, CA
May 2021 – Aug 2021

- Analysing Customer behaviour data to determine a pattern in their activity and to recommend them new products or services that can suit their needs. Go through petabytes of customer activity data real-time to provide smart suggestions. Interacting with a lot of different domain teams made this interpersonal project successful.

AthleTech Lab, Carnegie Mellon University

Research Assistant Pittsburgh, PA
Jan 2021 - Present

- Analyzing the data from sensors attached to ice hockey players real-time and infer their activity and also to compare this activity data pattern with the ideal Data pattern and give suggestion on improvements.

Ensemble Energy

Data Engineer Palo Alto, CA
Jan 2020 – Jan 2021

- Analyzed the data from renewable energy resource sensors to predict fault tolerance and to give smart suggestions.
- Handling real-time data as a team from cleaning and preprocessing it to projecting predictions and fault alerts on the mobile and web platform across time-zones.

National University of Singapore

Research Intern Singapore
May 2019 – July 2019

- Analyzed the privacy issues in data packets from IoT Cameras using ML and mitigation techniques using MPTCP.
- Inferring the critical privacy information from the network traffic caused by the data packets from the IoT Cameras.

ACADEMIC PROJECTS

Airborne (Gesture based cognitive system)

Vellore Institute of Technology Chennai, India
Jan 2019

- Recognized the pattern in which we wave our phone, using the accelerometer and gyro meter, to form a new form of AI enabled human-human interaction for seamless and comfortable communication between people and devices.

SmarTrack (GPS Tracker)

Vellore Institute of Technology Chennai, India
May 2018

- Real-Time tracking established by a low power real-time GPS tracker built using AWS services and STM32F1 ARM processor to track anything anywhere. Machine Learning techniques were adopted to fill missing data points.

SELECTED PUBLICATIONS

Karthik, R., M. Hariharan, **Sundar Anand**, Priyanka Mathikshara, Annie Johnson, and R. Menaka. "Attention embedded residual CNN for disease detection in tomato leaves." *Applied Soft Computing* 86 (2020): 105933.

Karthik, R., R. Menaka, Annie Johnson, and **Sundar Anand**. "Neuroimaging and Deep Learning for Brain Stroke Detection-A Review of Recent Advancements and Future Prospects." *Computer Methods and Programs in Biomedicine* (2020): 105728.