Naveen Narayanan

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EDUCATION

SSN College Of Engineering (Anna University) — Chennai, India
B.E in Computer Science and Engineering; GPA: 8.1 — *2017 – 2021*

EXPERIENCE

Solarillion Foundation — Chennai, India
Undergraduate Research Assistant — *Feb 2019 - Present*
- Designed a neural network for continuously monitoring cardiac activity using seismocardiograms
- Worked on light-weight Deep Learning algorithms for stress and affect detection on resource-constrained devices
- **Teaching Assistant**: Mentored 15+ students in Machine Learning and research, Designed assignments in ML
- **Server Administrator**: Work space automation, server maintenance, wrote scripts for tracking student progress
- **Advisor**: Mr. Vineeth Vijayaraghavan

AIcrowd
Research Intern — *Aug 2020 - Dec 2020*
- **Food Segmentation Challenge**: In-house research and designing baselines for the Food Recognition Challenge
- **Problem Designer**: Pixel wise satellite image classification problem, Captcha detection challenge
- **Advisor**: Mr. Sharada Mohanty

PayPal — Chennai, India
Incoming Software Engineering Intern — *Jan 2021*

RESEARCH AND PUBLICATIONS

End-to-end Deep Learning For Reliable Cardiac Activity Monitoring Using Seismocardiograms
Accepted at 19TH IEEE International Conference on Machine Learning and Applications (ICMLA) 2020, Florida, USA

Scalable Deep Learning For Stress And Affect Detection On Resource-Constrained Devices
Published at 18TH IEEE ICMLA 2019, Florida, USA

Deep Learning For UI Element Detection: DrawnUI 2020
2nd Place in Leaderboard, Working notes published at 11TH CLEF 2020, Thessaloniki, Greece

PROJECTS

- **GrocerStop** — *April 2020 - June 2020*
  Restart India 2020 Hackathon, 3rd Place
  Application to monitor, control and manage crowds at departmental stores for preventing spread of COVID-19.

- **Predicting The On-time Performance Of Flights In USA** — *Jan 2019 - April 2019*
  Modelled a two-stage predictive ML Engine that forecasts the On-time performance of flights.

- **TARS: Workplace Automation Bot for Solarillion Foundation** — *May 2020 - Present*
  Automated the process of updating the official website via Slack.

SKILLS AND COURSEWORK

- **Programming Languages**: Python, C++, C, SQL
- **Frameworks and Libraries**: PyTorch, Tensorflow, Git, Scikit-learn, Keras, Flask, Docker
- **Courses**: Probability, Statistics, Discrete Mathematics, Data Mining, Data Structures & Algorithms

ACHIEVEMENTS AND EXTRACURRICULARS

- 1 among 150 candidates accepted for the **Google AI Summer School 2020** by Google Research India
- 3rd Place, Blitz AI Challenge by AIcrowd
- 11th Rank in (top 2%), Food Recognition Challenge (Round-2) by Seerave Foundation
- 72nd Rank (top 3 %), EPFL ML Road Segmentation Challenge 2019
- Vice-President Membership, Secretary of a Toastmasters International Club (Public Speaking Club)
- School Topper in Mathematics and Computer Science scoring 99% in CBSE Class XII Examination