Sumanth Reddy Cherupally

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EDUCATION

Indian Institute of Technology Hyderabad — Hyderabad, Telangana, India
Bachelor of Technology in Electrical Engineering — GPA: 8.59/10.0 — 2017-2021

Narayana Junior College — Hyderabad, Telangana, India
Class XII, Maths,Physics,Chemistry — Percentage: 96/100 — 2015-2017

Pallavi Model School — Hyderabad, Telangana, India
Class X, CBSE — GPA: 9.8/10.0 — 2015

TECHNICAL SKILLS

Programming Languages: Python, C++, Golang
ML frameworks: Tensorflow, Pytorch
Certifications: Deep learning specialization from deeplearning.ai (Coursera),
Cybersecurity for Business specialization from University of Colorado (Coursera).
Operating Systems: Linux, Windows
Other Tools: Wireshark, Matlab, Dockers.

PROJECTS

Lightweight Scalable DAG based distributed ledger for verifying IoT data integrity — Sept 2019 – Aug 2020
Mentor: Dr. Kotaro Kataoka, Associate Professor, Dept of Computer Science and Engineering, IITH
- Proposed and developed a dag blockchain system for IoT data integrity verification.
- Accepted at ICOIN 2021 - 35th international conference.
- Presented at CEATEC 2019, Japan.

Camera Occlusion detection using deep learning — Sept 2020 – Present
Mentor: Dr. Sumohana S. Channappayya, Associate Professor, Dept of Electrical Engineering, IITH
- Currently working on methods to detect occluded camera vision using image processing and learning models.
- Working in collaboration with Honeywell.

Introducing blockchain for Inter domain route verification (BGP) — Aug 2020 – Present
Mentor: Dr. Kotaro Kataoka, Associate Professor, Dept of Computer Science and Engineering, IITH
- Extending on our work of DAG based distributed ledger we are addressing the route verification problem in BGP used by Autonomous systems(AS).

Remote battery monitoring system — Nov 2018
As a part time SD intern at SNF consultancy
- Developed a battery monitoring system which can work with constrained resources - Bandwidth, Power
- Included programming ESP32 micro controllers using the open source painless library.
- Click for poster.

WORK EXPERIENCE

BNY Mellon Technology
Software Development Intern — May 2020 – July 2020
- Worked as a summer intern in a team to redesign and implement a internal dashboard.

RELEVANT ACADEMIC COURSE WORK

Courses completed: Deep Learning, Representational Learning, Image processing, Distributed systems,
Matrix Analysis, Data Science Analysis, Data structures, Operating systems, Computer Networks, Internet of Things.
Courses planned to complete: Reinforcement Learning, Probabilistic graphical models, Linear optimization.

EXTRA-CURRICULAR ACTIVITIES

Class representative of my batch during 2017-18.
General Knowledge club captain at school.

HOBBIES AND PAST TIME

Sports and Games: Cricket, Football, Chess.
Enjoy travelling and watching movies.