

Sai Rithwik M

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EDUCATION

Integrated M. Tech | Computer Science Aug. 2018 – Present
International Institute of Information Technology, Bangalore Bengaluru, India

EXPERIENCE

Technical Analysis Intern May 2021 – July 2021
Ernst and Young Remote
Developed deep learning models for re-identification of products which had an approximate confidence metric of 87% and response time of 2 seconds. Developed a frontend and containerised the app to enable scaling and integrated this product with EY's automation platform ASpace.

PROJECTS

CovIntel - An AI based vaccine efficacy tracker Dec. 2020 – Feb. 2021
Tech Stack: Python, Docker, Azure

CovIntel is a modular and scalable AI tracker to determine vaccine efficacy based on the vaccination data with various population parameters. It also helps in identifying which locations in India could tend to become potential CoVID hotspots. The application can also calculate the probable time by which a location could become herd immune.

Benchmarking Open Libra blockchain May. 2020 – Present
Tech Stack: Rust, Move, Python

Understanding how the gossip protocol communication occurs at a consensus layer level in Open Libra, a Proof of Stake blockchain. Identified a few bottle necks at the consensus layer with regards to block commit time and currently developing a mechanism to reduce the overall transactional latency.

Whatsend Plus Dec. 2020
Tech Stack: Python

Whatsend Plus is a neat and elegant improvement of Whatsend, a Whatsapp based group creation and message scheduling tool. Using this, an user could automatically add unsaved contacts to a group which could be very helpful in organising various fests, meetings etc.

Product Recommendation using ML - Santander Aug. 2020 – Dec. 2020
Tech Stack: Python(Numpy, Sci-Kit Learn, Seaborn)

Built a classical Machine Learning model using various Boosting and Decision tree algorithms like XGBoost, Random Forest, LightGBM to predict whether an existing customer of a bank will add or drop a set of products in the upcoming month based on the their past behavior and that of similar customers.

ACHIEVEMENTS

Winner, EY Techathon 2021 Dec. 2020 – Feb. 2021

Among the winning teams out of 1500 participating teams where we came up with a solution to predict new case and herd immunity of a region in the CoVID-19 themed #iSolve4aBillion challenge.

Top 10, Nationwide Ranking on CTFTime October 2020

Our CTF Team Zense ranked 8th best team out of 5964 teams nationwide and 96th best team out of 35978 teams worldwide.

SKILLS

Programming: Python (Data Science Libraries, Scraping Libraries, Django, Flask), OCaml, C, Java, SQL
Non Technical: Volatility, Burpsuite, Wireshark, Sony Vegas Pro, Adobe After Effects, Adobe Premiere Pro
Languages: English (C1), Hindi (C1), Telugu (Native), Tamil (B1)

COMMUNITY INVOLVEMENT

Co-Founder, Zense InfoSec Team 2020 – present

Started Zense Infosec club, where we participate in various Capture the Flag contests which spread awareness about security and bug hunting in various vulnerable applications.

Co-Licensee, TEDxIIITBangalore 2020 – present

Was the Co-Organiser of TEDxIIITBangalore, an annual community event of IIIT Bangalore.

Core Organising Team, iSTEM Hackthon 2018 – 2020

Was in the core organising team of iSTEM Hackathon, an event to motivate STEM research and inclusiveness in the visually impaired community.

INTERESTS & HOBBIES

Computer Security: Passionate about Computer Security specifically Memory Forensics, Networks and Cryptography.

System Design: Fascinated about architectures of various platforms since my freshman year. Tried my hands on making smaller versions of them for my projects on Azure to help me understand them better.

Video Editing: Pursued video editing as a hobby and have edited videos for various events in my college such as Infin8, Yamini, iSTEM Hackathon etc.