

Satini Sankeerthana

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LinkedIn: <https://www.linkedin.com/in/satinisankeerthana>

GitHub: <https://github.com/RecStu14/Data-Science-and-AI.git>

Education

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|---|----------------------------|
| Nanyang Technological University | <u>Aug 2019 - to-date</u> |
| Bachelor of Engineering (Computer Science) | |
| Expected completion of degree: June 2023 | |
| Eunoia Junior College (EJC) | <u>Jan 2017 – Nov 2018</u> |
| GCE A level Certificate | |

Work Experience

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| Part time Computer Vision Intern | <u>Aug 2022 – Nov 2022</u> |
| <u>Asurion</u> | |
| <ul style="list-style-type: none">Worked with the YOLOv5 model in the context of 2D Object Detection of Mobile Phones and optimized the existing workflow.Conceptualised an automated Continuous ML Feedback Loop as part of the CI/CD process using AWS Services.Researched and Implemented 3D Object Detection Models using Point Clouds. | |
| Data Scientist Intern | <u>May 2021 – Dec 2021</u> |
| <u>A*STAR – Institute for Infocomm and Research (I²R)</u> | |
| <ul style="list-style-type: none">Conducted Experiments on state-of-the-arts Computer Vision models in the field of Semi-supervised 2D Object Detection such as STAC and Unbiased Mean Teacher Model, SSD MobileNetv2, YOLOv4 and Faster RCNN. | |
| Data Analyst Intern | <u>July 2020 – Nov 2020</u> |
| <u>Learnseeker – Dingle Enterprises Pte Ltd</u> | |
| <ul style="list-style-type: none">Designed , developed and automated reporting dashboards and insights on Google Data Studio for the company and as a service for clients. | |

Research Experience and Publications

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|---|-----------------------------|
| Data Scientist Intern | <u>May 2021 – Dec 2021</u> |
| <u>A*STAR – Institute for Infocomm and Research (I²R)</u> | |
| <ul style="list-style-type: none">International Conference for Social Robotics (ICSR) 2021- A Survey on Object Detection Performance with Different Data Distributions .Conference on Learning Factories (CLF) 2022 - Creating Semi-supervised learning-based Adaptable Object Detection Models for Autonomous Service Robot . | |
| Undergraduate Research Experience on Campus (URECA) | <u>Aug 2021 – June 2022</u> |
| <u>Nanyang Technological University (NTU)</u> | |
| <ul style="list-style-type: none">Researched on Performance of ResNet50 on Time-Frequency Representations of EEG Signals – namely Synchrosqueezing Transform and Short Term Fourier Transform. | |

Skills and Certifications

Programming Languages: Python

Data Science and Analytics: Data Mining | Insight generation | Pandas | NumPy | Seaborn | Matplotlib | Google Data Studio | Tableau | Microsoft Power BI

Machine/Deep Learning: Modelling | TensorFlow | Scikit Learn | Pytorch | OpenCV | Computer Vision | Neural Networks | NLP | ChatGPT Models | OpenAI APIs

AWS Services: SageMaker | Lambda | S3

Certifications:

1. [Machine Learning Stanford University - Coursera](#)
2. [Python for Data Science and Machine Learning - Udemy](#)

Written and spoken languages: English (Professional) | Telugu (Native) | Hindi (Professional)

Projects

'PlayMate' – Telebot + ChatGPT as Backend

- Created a game bot on Telegram that incorporated a ChatGPT model using OpenAI API as a part of a group project for a module – Cloud Computing.
- The game-bot allows users to play 3 games – Trivia, Emoji Translation and Word Ladder.
- Learning points include working with OpenAI APIs and 'Requests' libraries to send and receive messages, as well as implementing chatbot-as-a-service using ChatGPT model – gpt-3.5-turbo.
- The telebot can be tried at https://t.me/funny_trivia_bot while the code can be found at <https://github.com/RecStu14/Trivia-Telebot-ChatGPT.git>.

Final Year Project: 'Blackout' – An Augmentation Technique to Handle Occlusion in Pedestrian Detection

- Researched on existing augmentation techniques and anchor-free detectors.
- Implemented anchor-free models such as YOLOX.
- Developed a novel augmentation technique – 'Blackout' to tackle intra-class occlusion in the field of pedestrian detection.
- The implementation of the 'Blackout' algorithm can be found at <https://github.com/RecStu14/fyp-pedestrian-detection.git>.

CCA Activities and Leadership Roles

Tiong Bahru CC Youth Network (YN) – Vice-Chairperson

2020 – 2022

- Grassroots Organisation which organises events for the community.
- Spearheaded CODE-X an Event which constitutes Coding workshops for Secondary School student and conducted a Coding Competition at the end.

Indian Classical Dance – Bharathanatyam

2009 – Present

- Completed Diploma Examination in Bharathanatyam.
- Performed debut solo recital (Arangetram) in 2015.

Awards & Accomplishments/ Achievements

National Youth Achievement Award Singapore - Bronze

2016