Sanjay T

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Objective

An inquisitive learner, seeking an entry level role preferably in the field of Deep learning or App development that can nurture my computational skills and research experience to contribute for the analytical and software development needs of the company and for my professional growth.

Education

Degree

Course: B.Tech – Computer Science Engineering
Institution & University: Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Chennai
Period: 2019-2023
CGPA: **8.76 /10**

Higher Secondary Education

Subjects: Physics, Chemistry, Mathematics
Institution: A.V.P Trust National Matriculation Higher Secondary School, Tiruppur, Tamilnadu
Period: 2017-2019
Board: State Board
Marks / Grade: 498/600 or 83%

Secondary Education

Institution: A.V.P Trust National Matriculation Higher Secondary School, Tiruppur, Tamilnadu
Period: 2016-2017
Board: State Board
Marks / Grade: 486/500 or 97%

Areas of Technical Interest:

- Deep Learning
- Data Analytics
- Web & Android App Development
- MLOps

Certification – Microsoft Technology Associate – Security Fundamentals
Score (in percentage) - 88

Projects

Topic: Genie Net
Duration/Period: September 2021
Objective: To keep the social networks safe from computer generated / morphed images.
Tools or techniques used: PyTorch, Django, Bootstrap, HTML, CSS, JavaScript, Microsoft Azure App Service
Outcome: Built a web app for detecting computer generated images using a Convolutional Neural Network
Source: https://github.com/sanjay-thiyagarajan/GenieNet

Topic: Product Score
Duration/Period: August 2021

Objective: To eliminate the need for an analyst by building a platform for analyzing the product reviews from the popular app markets like Google Play Store, App Store and Atlassian Marketplace
Tools or techniques used: Atlassian Forge, React JS, Flask, Heroku, expert.ai Natural Language API, Web scraping
Outcome: Built an integrated platform for analyzing the product reviews and hosted it on Atlassian Confluence platform.
Source: https://bitbucket.org/sanjay-thiyagarajan/product-score

Topic: Deep Shield
Duration/Period: July 2021
Objective: To detect deep fakes in images
Tools or techniques used: Django (Python), Bootstrap, HTML, CSS, JavaScript, expert.ai Natural Language API, Web scraping
Outcome: Built a web app for detecting deep fakes using a deep learning pipeline consisting of the Blaze Face model for face extraction and the Deep fake model for detection.
Source: https://github.com/sanjay-thiyagarajan/DeepShield

Topic: AgroAssist
Duration/Period: May 2021
Objective: To detect diseases in apple tree leaves
Tools or techniques used: Django (Python), Bootstrap, HTML, CSS, JavaScript, HubSpot
Outcome: Built a web app for detecting diseases in Apple tree using Convolutional Neural Network.
Source: https://github.com/sanjay-thiyagarajan/AgroAssist

Topic: Health Heroes
Duration/Period: February 2021
Objective: To digitize medical records using QR based authentication system
Tools or techniques used: Android Studio (Java), Firebase (Realtime Database)
Outcome: Built an android app for digitizing medical prescriptions using QR based doctor-patient authentication and storing prescription as a digital document.
Source: https://github.com/sanjay-thiyagarajan/Health-Heroes

Internship

Organization / Location: WikiWorks (Wikimedia Foundation) / Virtual
Duration/Period: November 2021 – Present
Objective: To improve MediaWiki extensions like Cargo, Page Forms and Flex Diagrams
Tools or techniques used: JavaScript, jQuery, PHP
Stipend: USD 300 / month

Achievements

AWS Graviton Hackathon – Amazon Web Services – *First Place*
July 2021

- Project – Detecting tampered / CGI images using Deep Learning

MLOps for Good - Iguazio, Microsoft, MongoDB – *Third Place*
July 2021

- Project - Detecting deep fakes using Deep learning powered by MLRun

hello: world by Cal Hacks, UC Berkeley — *Winner*

April 2021

- Project - Teaching American Sign Language (ASL) through an interactive game which provides the score based on the user's accuracy in making the signs on a live camera.

Yaadhum Oore Global Conclave Hackathon, Government of Tamilnadu & IEEE YESIST20 — *Runner-up*
October 2020

- Formify - Android app which fills digital forms for uneducated people by interacting with them through voice using Google TTS engine.

RallyToUS+ VetsinTech Hackathon — *Honorable Mention*
October 2020

- ContactMe - Android app for managing contact cards using simple QR code based requests eliminating much of physical contact.

Lights Camera Hacktion, MLH — *Winner*
February 2020

- Perfect Pause - A computer vision powered VLC client which monitors the user's facial data and pauses the movie when the user is diverted or falls asleep.

Hero Hacks, MLH — *Best Google Cloud implementation*
February 2020

- Health Heroes - Android app for storing and managing digital prescriptions added with no-contact prescribing through QR codes and doctor profile verification.

New Friends New Hacks, MLH — *Third Place*
February 2020

- Mask Appeal - A python project for detecting whether a person wears a mask or not using OpenCV

Experience

- **Evaluator | Toycathon 2021 (Grand Finale)**
  Innovation Cell, MHRD, India
  February 2021 - June 2021

- **President | Cognizance (Student Club)**
  Dept. of CSE, ASE Chennai
  December 2020 - Present

Extra-Curricular Activities: Badminton, Cricket

Personal details

- Date of Birth: 05/06/2002
- Language proficiency: English, Tamil
- Hobbies / Interests: Watching movies
- Contact Address: 8/1028B, Teachers Colony, Mummoorthy Nagar, Pooluvapatti Post, Tiruppur, Tamilnadu

Place: Tiruppur
Date: 05/10/2021

(Sanjay T)