

Sai Adarsh S

Open Source at UberEngineering, CNCF, Nvidia, EpicGames | Full Stack and Machine Learning Engineer

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*Full Stack developer. I make APIs and run listing Marketplaces website for living.
I develop my front end with HTML, CSS, JS & JavaScript and Python for the backend.
I have always been fascinated by Neural Networks, , Generative Adversarial Networks, Computer Vision Algorithms as a whole for which I've Nanodegrees under my hat. I'm open to paid (internships, part-time positions) related to Full-Stack development and ML Engineering. Highly interested if these are paid and/or if the work is open source.
Most of my work can be found on my GitHub profile: github.com/Sai-Adarsh*

EXPERIENCE

Uber Engineering

May 2019 to Present

Individual Open Source Contributor

CNCF [Cloud Native Computing Foundation]

Dec 2018 to Present

Open Source Contributor

A CNCF SIG will oversee and coordinate the interests pertaining to a logical area of needs of end users and/or projects. Examples of such areas include security, testing, observability, storage, networking, etc. The area overseen by a SIG is typically met by a set of CNCF projects, and may also represent a cross-cutting feature group shared by several projects (like security and observability).

GUVI Geek Networks, IITM Research Park

May 2019 to Jun 2019

Software Engineering Intern

Automation and Data Visualisation

Foursteps Training Solutions

Dec 2018 to Jan 2019

Software Engineering Intern

Indian Institute of Information Technology Design & Manufacturing Kancheepuram

May 2018 to Jun 2018

Research Intern

- Former Intern at IIITDM as a summer research intern under Dr. Masilamani (alumni of IIT Madras and IIT KGP) under Machine Learning, Digital Image Processing with python.
- Attended a workshop on digital image processing conducted by IIITDM and Centre of Computer Vision.
- Worked under various domains such as Stereo Algorithms in OpenCV, Python, Convolutional Neural Nets, Regression models, deploying the models to production using web frameworks such as Django, flask.

Google Developer Groups Coimbatore

Jul 2017 to Mar 2018

Member

- GDG Coimbatore is a Coimbatore-based non-profit developers group to learn, share and know more about technologies.
- The industry is growing like never before, and we're trying to push the community forward to keep up with the industry.
- We are constantly trying to push ourselves to bring the best of technology to you through sessions and unlimited resources.
- And this is just the beginning. We have a common channel to communicate with our community members.

EDUCATION

Anna University

2017 to 2022

Master's degree in Software Engineering

Coimbatore Institute of Technology (AICTE) affiliated to Anna University, Chennai.

TVS Matriculation Higher Secondary School

2005 to 2017

Mathematics, Science & Computer Science.

SKILLS

C, C++, Linux, Python, Data Structures, Object-Oriented Programming (OOP), SQL, JavaScript, Software Development, Software Systems Engineering, Node.js, React Native, React.js, Full-Stack Development, SQL, Django, Flask, Git, GitHub, Continuous Integration, Continuous Delivery (CI/CD), HTML5, Cascading Style Sheets (CSS), JavaScript, Amazon Web Services (AWS), Google Cloud Platform (GCP), IBM Watson, Firebase, Android, Microsoft Office, Leadership, OpenCV, Heroku, Netlify, Artificial Intelligence, Machine Learning, Deep Learning, Numpy, Pandas, Scikit-

Learn, Tensorflow, Keras, Google Colab, Neural Networks, Digital Image Processing, Linear Regression, Support Vector Machine (SVM), Logistic Regression, Regression Models, Algorithms, GAN, Graphic Design, Visual Effects, Adobe Photoshop, After Effects, Adobe Premiere Pro.

PROJECTS

Mechons

Jun 2018 to Jul 2018

<https://drive.google.com/file/d/1m-lfJft2KFHujmC9CfHZPZu7XfZoU4lS/view?usp=sharing>

Mechons is a pocket lab android application that allows electrical and electronics engineers to access lab tools in one go, it's a part of contribution activity to FOSSASIA.

Rancho

May 2018 to Present

https://drive.google.com/file/d/1eTAA3GPvh8kKGPYfCKVbDRqK8T2Vd_H7/view?usp=sharing

Rancho is an android application that helps one to study efficiently with Timely Flashcards and reminders on study material, it has a Machine learning backend that allows it to learn from the user and displays Flash cards accordingly

Do It

Apr 2018 to May 2018

Do It is Event scheduling and reminder app that is free of integration with Google calendar,

OpenCV Emotion detection

Present

<https://github.com/Sai-Adarsh/RealTimeFR-master>

Convolutional Neural networks based Face Emotion detection, that uses OpenCV and Haar Cascade algorithm

Mental Health Issues Detection with Thermal Facial Image

Dec 2018 to Jan 2019

https://docs.google.com/presentation/d/1NUCij6CLKhAddR33ej12i8JB2w_t9eBsy7rnpw3SDzo/edit

We used DL Image Classifying algorithms for the classification, Django Framework for the Web Application of the same and we also deployed it in Heroku for the scalability. This project was Presented at the HSBC AI Hackathon that held at IIT Madras on January 5th of 2019. Our Project was selected as one among the Top 9 teams and we were judged by experts in AI from the reputed institutes of IBM.

News Article Fetching and Sentiment Analysis

Dec 2018 to Jan 2019

<https://github.com/Sai-Adarsh/IBMHackathon>

It is a basic sentiment analysis model deployed with a Web UI which went on to clinch the #1 Prize at the IBM Trusted AI Hackathon that happened at the Tech Fest of IIT Madras - Shastra 2019. The entire Application was built with JavaScript Frameworks such as NodeJS and VueJS.

Smart Household Dustbin

Jul 2018 to Jan 2019

https://docs.google.com/presentation/d/1J2SqvwEXI2wXdiCwQosVYPzg789PgcdkNCStxfA_bNc/edit?usp=drive_web&ouid=103120140217887042932

We used the same Convolutional Neural Network Model that we made in the HCL Hackathon to design a Smart Dustbin wherein there is a plate at the top of the Dustbin and the Pi cam and attached rear to it. The plate leans left if the dropped item is non-biodegradable and leans right if it is otherwise so as to segregate the waste at the source into two different partitions of the dustbin.

Solid Waste Segregation

Jul 2018 to Present

https://drive.google.com/file/d/1zYe4zsE7LCiFeQaF7yomo0cPqRlTW_MT/view

We made a Image Processing Model powered by Convolutional Neural Networks embedded with Raspberry Pi and its Add ons. This Project was done in what's possibly "The Biggest AI Hackathon in India in terms of number of Participants". We won the #1 Prize out of 200 finalist teams in Hackathon where 2000+ teams registered.

Diagnosis of Diabetic Retinopathy using Machine Learning Algorithms

May 2018 to Present

We, the team Appendly, classified a given limited number of data sets(Fundus images of eyes) into the ones that are affected by Diabetic Retinopathy and the ones that are not. We used Python library scikit and machine learning algorithms for this project. It was done on March 26, 2018 at HCL Hackathon, Madurai.

Dromo

Sep 2018 to Present

<https://dromo.club>

Dromo is a for profit marketplace website.

Use cases: International P2P air messenger services. Local bike messenger services.

Flipkart Cost Per Lifetime Predictor

Jul 2019 to Present

<https://www.producthunt.com/posts/flipkart-cost-per-lifetime-predictor>

A Web Application, when pasted the e-commerce link of the corresponding product, would fetch details like Cost of the Product, Warranty of the Product, Rating of the Product, Monthly Cost per Lifetime, Value for Money Aspects of the Product and stores it cloud for later retrieval.

Eli5 StackOverflow

Jul 2019 to Present

<https://github.com/Sai-Adarsh/IBMHackChallenge>

The proposed solution helps to identify most relevant questions to a query using text similarity including identify the matching tags and pick top relevant questions from stack overflow and identify top (k) solutions of the problem based on sentiment analysis of reviews of the given solutions on the Stack Overflow.

HONORS

#1 Prize in MadurAI Hackathon conducted by Guvi Technologies and HCL Technologies.

- This competition was known to be possibly "The Biggest AI Hackathon in India in terms of the number of Participants" (as of August 2018).
- We made a Solid Waste Segregating Image Processing Model powered by Convolutional Neural Networks embedded with Raspberry Pi and its Add ons.
- TensorFlow, OpenCV, Amazon Web Services, Django Framework, Google Firebase and Raspberry Pi were the Technologies we used for this model.

#1 Prize in IBM Trusted AI Hackathon at IIT Madras

- We did a News Article Sentiment Analysis Project using JavaScript for both the front end and the back end (Vue JS and Node JS).
- This Project won the #1 Prize in a Hackathon that was held at IIT Madras saw the participation of around 200 teams all over India. We received a cash prize of Rs. 30,000 as a reward.

#1 VIT Hackathon

October 12th, 2019

Vellore Institute of Technology, Chennai

- Web App to diagnose patients based on symptoms, personalized transcripts, and medical history.
- Online diagnosis, Appointment Booking, Instant Remedies, Consultant Appointment.

#1 Global Game Jam 2018

January 2018

- A Unity and Vuforia, Mixed Reality medical training simulation that was designed to assist in the lack of hands-on experience (practicals) opportunities in the medical school curriculum. My teammate and I created a Vuforia and Unity proof of concept hospital environment and a simplified procedure. We created this at Global Game Jam 2018 and made a podium finish at the same.

#3 SRM Aarush Hack Summit

September 2019

- Team Albuquerque (Rajasekar M, Sibi Bose, Balaji Rajasekaran) made podium finish at the SRM Aaruush Hack Summit, under the theme: Healthcare tech.
- We made an emotional stress monitoring API using python, flask stack, multiway classification neural networks, and heroku.

Runner - TiE Hackathon - Coimbatore

September 2019

- We, the team Appendly, classified a given limited number of data sets(Fundus images of eyes) into the ones that are affected by Diabetic Retinopathy and the ones that are not. We used Python library scikit and machine learning algorithms for this project. I

CERTIFICATIONS

Deep Learning Specialization

Jun 2018

Coursera

Secure and Private AI Challenge

May 2019

Udacity

Data Science, Deep Learning, & Machine Learning with Python

Dec 2017

Udemy

HTML , HTML5 Web development

Aug 2017

SoloLearn

AWS Serverless APIs & Apps - A Complete Introduction

Udemy

SQL

Nov 2017

Solo Learning

Kali Linux ,Ethical Hacking and Penetration Testing

Mar 2018

Udemy

Learn Android Application Development

Udemy