Sam Radhakrishnan

sam.radhakrishnan@outlook.com | +91 - 9952868058

SKILLS

PROGRAMMING

C, C++, Python, JavaScript, Kotlin, NodeJS, ReactJS, PHP

MACHINE LEARNING TOOLS

scikit-learn, Pandas, Numpy, Keras

OTHER

AWS, MongoDB, PostgresSQL, Git, Kafka, RabbitMQ, CUDA, HTML/CSS, Docker, Kubernetes

EDUCATION

NIT, TRICHY

BTech in Computer Science, 8.75/10

May 2017 | Tamil Nadu, India

OPEN SOURCE

Rust Language
Diaspora
DuckDuckGo Goodies
DuckDuckGo Fathead
Coala

AWARDS

- Finalist, ACM ICPC India Finals 2016
- 26/450, ACM ICPC Amrita Regionals 2016
- Finalist, Build The Shield 2016, Microsoft CTF
- IAS Summer Research Fellow 2015

ZALANDO SE | Senior Software Engineer

Nov 2020 - Present | Berlin, Germany

- Working on a research team building algorithms to optimise warehouse management for next generation of zalando warehouses
- Designed an improved cart picking algorithm for zalando warehouses, improving the efficiency of warehouse pickers. Designed an A/B test to verify the improvements. The algorithm led to about 1 million euros of savings for Zalando
- Working with Kotlin, Python, Kubernetes, Kafka

ALPHONSO LABS | Lead Technologist

May 2018 - Dec 2019 | Bengaluru, India

- Lead a team that built a system to detect ads from normal television programming.
- Designed and implmented video and audio based ad detection algorithms. Used OpenCV, CUDA and FFMPEG to analyse video frames and audio frames
- Designed and built a scheduling service that allows to schedule user jobs and systems jobs on a limited cluster of machines based on priority.
- Built internal tools to debug and monitor services, using D3, React, and Redux.
- Responsibilities included mentoring of junior engineers and interns.
- Working with Node, C++, OpenCV, CUDA, python, Kafka and RABBITMQ

AMAZON INDIA DEVELOPMENT CENTER | Software Development Engineer

Jul 2017- May 2018| Chennai, India

- Built a web tool for monitoring traffic to Amazon services, and providing statistical information to service owners.
- Worked on a framework for load testing Digital Purchase APIs using AWS SQS.
- Designed and worked on porting an existing perl system for external fraud investigators to JAVA spring, moving to a workflow based system.
- Worked with JAVA Spring and JavaScript.

Github:// sam09
Codechef:// skidm09
LinkedIn:// samradhakrishnan

TECH TALKS

• Video Analysis using CUDA and OpenCV - FOSDEM
• Introduction to Linux

PROJECTS

RORSHACH

- A file watcher written in rust that automates mundane tasks.

TRIP RECOMMENDATION SYSTEM

- Worked on collecting information on social networks to identify popular tourist locations at a city, using selenium.
- Wrote a genetic algorithm to identify the most 'rewarding' sequence to visit places in limited time.

CUSTOMER RISK PREDICTION

- Worked on building a machine learning model to identify customers who are likely to take a loan.
- Used under-sampling and an ensemble of classifiers to deal with imbalanced data set.

PRAGYAN CTF 16

- Worked on setting buffer overflow, cryptography and reverse engineering challenges.

BANDCAMP-DL

- A python package that downloads music
- Close to 22k downloads on PypI

PUBLICATIONS

• Krishnakumari,K., Sivasankar, E. & Radhakrishnan (2019) Hyper parameter tuning in convolutional neural networks for domain adaptation in sentiment classification