**+91-7503445044** 

in tushar-027021ba

tushar2196

tushar2196.github.io

# **SUMMARY**

A Software Engineer driven by logic, with more than 2 years of industry experience in developing high performance, scalable, and secure software stack, enabling organisation in driving better product roadmap. Having in-depth knowledge of Data Structures, Distributed Processing, Algorithms & Machine/Deep Learning.

# **EXPERIENCE | 2 YEARS & 6 MONTHS**

# **Software Engineer**

# **Intel Corporation**

[May, 2019 - Present]

- Currently working on Server Graphics Products GPUs, to develope the complete pipelines for different components of the H/W which includes analysing there overall performance and debug. Main focus is on compute intensive AI/ML models and their optimisation.
- Developed End-to-End Framework for running the Deep Learning Application Solutions which provide features for performance profiling, scaled/automated execution and many more.
- Recently received Spontaneous Recognition Award from Upper Management for bringing out the on-time execution and report attribution.
- As a Software Engineer Trainee for 1+ year, Explored the deep learning state of the art models in different frameworks like Tensorflow, Caffe and Onnx. I mainly focus on developing the framework to validate these models using automation with scripting languages like bash, python.
- Received Department Level Recogniton for Software Validation and execution excellence on Intel Neural Network Inference Accelerator. Specially recognised for On-Time Delivery and Customer Obsession.

### **Key Projects**

#### **Publication/Research Project -> Link**

- Skills: R, Rattle, Supervised Learning Classification, Random Forest, Decision Tree, Linear Regression Models
- Presented Published research paper titled 'Prediction Analysis of risky credit using data mining classification models' (IEEE Catalog Number: CFP1752J-ART/ISBN: 978-1-5090-3038-5) released in the 8th International Conference on Computing, Communications and Networking Technologies at IIT-Delhi, India.

#### **Major Thesis - Research Project**

- Skills: Python, Pytorch, GPU Programming, Pytorch, Generative Adversarial Network, Deep Learning
- Performance Analysis and Device Agnostic Optimisation of Image Synthesis Generative Adversarial Network (GAN) Workload on Intel NNPI vs Nvidia GPU

# Implementation of KMP Algorithm using MPI+OpenMP (Distributed Systems - HPC)

- Skills: MPI, OpenMP, C++, Scaling, Linux
- Pattern matching using clusters of 5 systems(Linux Ubuntu OS) for large input in millions to divide the task between each and achieve parallelisation while computing.

## Transfer Learning using imagenet dataset and VGG19)

- Skills: Deep Learning, Keras, Tensorflow, Python, Scikit, Image Classification, CNN, VGG19
- Used Pre Trained Dataset to Classify the Object in the images Tensorflow, Keras Models, Scikit learn Library were used. Used Imagenet - Fish Dataset along with CNN Model - VGG19 to detect the Category of Fish with K-Fold Validation done after Training the Dataset.

# **Technical Engineer**

#### **Wipro Limited**

[Dec, 2017 - Jan, 2018]

• Leveraging the Customer Relationship Management salesforce Utility to provide the real time solutions to client queries and handled the peers issues dynamically at a large scale. Recognized as best performer of the month too.

### **TECHNICAL SKILLS**

## **Programming Languages**

- C/C++
- Python
- R/Rattle (analysis)



### Web World

- HTML5
- CSS3, Bootstrap,
- Django
- Javascript



#### Al World

- Deep Learning CNN,GAN
- Pytorch, Tensorflow
- FFmpeg, DLstreamer
- Supervised/Unsupervised Learning



# **Database**

- SQL
- POSTgreSQL
- NoSQL



### Tools & CI/CD

- Docker
- Kubernetes
- AWS, GCP
- Jenkins, Jira
- · Gerrit, Gitlab, Github

#### **ACHIEVEMENTS**

- College Winner in ICICI Virtual Stock mind season 5
- Organiser, Sangdak Vimarsh, College Tech Fest, 2017

# **STRENGHTS**

- Problem Solving
- Deadline Oreinted
- Team Player

## **EDUCATION**

# M.Tech Information Technology

NIT Surathkal, Mangalore

# **B.Tech Computer Science** Univeristy of Delhi

## Higher Secondary (CBSE)

Senior Secondary (CBSE)