Bengaluru, India

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EMPLOYMENT

Senior Machine Learning Engineer **Zupee (Cashgrail Private Limited)** **September 2022 – Present**

- Improved the performance of the fraud detection system by using deep learning to detect similarity in profile pictures
- Worked on Real time fraud detection architecture development using Apache Flink, Kafka, and Dynamo DB.
- Leveraged Knowledge in Computer Vision, Deep Learning, Pytorch, Kafka, Flink, OpenCV, AWS, AWS Athena and SDLC.

Senior Software Engineer **Fynd (Shopsense Retail Technologies Pvt. Ltd.)** **September 2021 – September 2022**

Computer Vision & AI/ML

- Built media content moderation system and improved the performance of Deep Learning AI models by using one-cycle policy, sampling and hyper parameter tuning. Worked on complete ML lifecycle from EDA to model deployment.
- Increased the performance of the Augment Reality (AR) virtual product trail platform by 25% by using NCNN and Multithreading along with Web Assembly. The core APIs are written in C++ language.
- Implemented Game recommendation system, Reinforcement Learning game bots and NLP text moderation services.
- Leveraged Knowledge in C++, Computer Vision, Deep Learning, NLP, Recommendation system, Pytorch, TensorFlow, TF Lite, OpenCV, NCNN, WebAssembly, Emscripten, Machine Learning and SDLC.

Machine Learning Engineer **DeepEdge AI India Pvt. Ltd.** **September 2020 - September 2021**

- Implemented Face Recognition pipeline on body camera device; identified models, validated it, performed quantization, generated model binaries using platform's SDK to deploy on the "System On a Chip" device.
- Increased the performance of the Face Recognition pipeline by 30% by using face normalization, face tracking, consecutive frame evaluation, weighted descriptor scoring and hyper parameter tuning.
- Implemented efficient, fault tolerant C++ libraries (.so and .dlls) for a Face Registration Engine; Built .NET applications to access the DLLs, register the face and generate database binaries for the SOC device.
- Leveraged Knowledge in Python, C++, Data Structures, Algorithms, Threading, TensorFlow, PyTorch, ONNX, MXNet, Machine Learning, Neural Networks, Deep Learning, and Computer Vision and debugged using GDB and Visual Studio.

Software Engineer **Aiseon Healthcare Technologies Pvt. Ltd.** **July 2018 - August 2020**

- Increased performance of AI platform by 20% by using hybrid and decoupled Deep Neural Network models.
- Developed deep learning models for identifying disease causing lesions in medical images by using PyTorch framework; created architecture, trained it, fine-tuned it, deployed it using Docker & Kubernetes on IBM Cloud.
- Implemented scalable, distributed and asynchronous REST APIs for the AI engine by using Message Broker, Task Queue, Gunicorn, Ngnix, Docker and Kubernetes.
    - Made it scalable and robust to be able to serve a high number of concurrent demands.
    - Integrated Continuous Integration and Continuous delivery (CI/CD) and auditing (MongoDB).
- Leveraged Knowledge in TensorFlow, Keras, Flask, Celery, RabbitMQ, CUDA, ML, Docker, Kubernetes, Plotly, Seaborn.

EDUCATION

Prayagraj, India **Motilal Nehru National Institute of Technology** **July 2014 – May 2018**

- **Major:** Bachelor of Technology (B. Tech.) in Computer Science and Engineering
- **Programming Coursework**: Data Structures, Algorithms, Object Oriented Programming, DBMS.
- **Software Engineering Coursework**: Embedded Systems, Distributed Systems, Digital and Computer Organization, E-Commerce, Software Engineering and Modelling, Cryptography

OTHER TECHNICAL EXPERIENCE

Projects

- **AI Image Grader** (2019). App to analyze adequacy of medical images. Used Random forest, XGBoost, SVM, PCA & CV.
- **AI Model for classification of Traffic Signs** (2017 – 2018). Implemented & trained a Neural Network with 94% quality. Used TensorFlow, Pandas, OpenCV, Sklearn.

CERTIFICATIONS

- **Deep Learning Specialization by Deeplearning.AI**. Provided by Coursera. Credentials
- **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization by DeepLearning.AI**. Provided by Coursera. Credentials
- **C++ Advanced**. Provided by HackerRank. Credentials: https://www.hackerrank.com/certificates/2c60f9018ceb

Languages and Technologies

- C++; C; Java(basics); Python; R Language; Scala; SQL; Bash; Machine Learning; Deep Learning; Docker; Kubernetes;
- Visual Studio; TensorFlow; PyTorch; Caffe; ONNX; Flask; Ngnix; Gunicorn; Apache Spark; AWS; Azure ML