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Career Summary

- Currently pursuing my career as a Senior Software Engineer with core expertise in Deep Learning, Machine Learning, Python, C++.
- My work has revolved around architecting ML-driven solutions in products/platforms and getting them live into production.
- Experience in various ML algorithms (KNN, K-means, Naive Bayes, Logistic Regression, SVM, DT, Random Forest, GBDT etc.)
- Experience in building Deep Learning models using Neural Networks such as LSTM/RNN, CNN, Transformer, Bert, Autoencoders, Memory Networks, etc.
- Well versed with applications such as Docker, Kubernetes. Experience in using GCP/AWS when there's a need for high computing power.

EXPERIENCE

• Imagination Technologies

Pune, India

Senior Software Engineer [Vision and AI]

Sep 2021 - Present

- o NC-SDK
 - * Working on building SDK to support neural networks to run on Imagination's GPU and NNA (Neural network accelerator) with the help of TVM.
 - * Implemented support for LSTM/RNN in Imagination NCSDK for Networks present in PyTorch, tf, Onnx.
 - * Developed graph transforms for various operations and operators in RelayIR(TVM).
 - * Contributed in development of quantization tools(static/dynamic quantization, QAT) for various frameworks.

Xpanxion Data Scientist

Pune, India

Jan 2020 - Aug 2021

o Anthem - Symphony

- * Extracting information from the various medical documents with help of AI/ML.
- * Document Classification and candidate extraction from classified documents to extract benefit, rates, drug details and plans details. Using libraries like Fonduer, Tesseract, OpenCV.

o Digital Access Hub

- * Building various reusable AI/ML components as a part of Innovation team
- * Recommendation system using the content-based/collaborative algorithm
- * NLP components such as NER, QnA from knowledge base and sequence translation.
- * Worked on Computer Vision use cases like Object localization and detection, Image segmentation and Gesture recognition.
- * CCA (Canonical Correlation Analysis), Factor analysis to find out the relation between the features and then use the ML algorithm to find out the insights.

• Siemens R&D

Pune, India

 $Product\ Development\ Engineer$

Dec 2018 - Dec 2019

• Automation Designer(Python/C++)

- * Developing an application for designing of manufacturing sequence.
- * Debugging and fixing the issue in the existing code.

Software Developer

• TCS

Pune, India

Dec 2015 - Nov 2018

Application Developer(Python)

- * Developed an application for client NCRA for Monitoring and Controlling.
- * Monitoring and debugging the issue and modifying the GUI as per requirements.
- * Build a model for the false triggering of alarm and anomaly detection.

Projects

• Deep Learning

- Neural Machine Translation using Attention mechanism (NLP) Task is to implement Machine Translator. Attention was used to deal with longer sequences. Data cleaning and output labels were padded with start and end tokens before feeding to n/w.
- Nueral Question Answering(NLP + Attention + Machine Reading Coprehension) Objective is to find correct answer for given question and context pair. Implemented Standford Attentive Reader.SQUAD v1 dataset was used for this project. Various binary and NLP features were used to get the best results. Compared the final results with fine tuned BERT model.

• Machine Learning

- Netflix Movie Recommendation System (Collaborative based recommendation) Objective was for the given movie and user predict the rating given by him/her to the movie. The dataset was obtained from kaggle.

 Matrix factorization was used to get similarity matrices. Tried and tested various ML models to get minimum Root Mean Square.
- Stack Overflow Tag Prediction Objective is to predict as many as tags possible with high Precision and Recall. The dataset was obtained from kaggle. The given problem is multi-label classification problem. The dataset contains features such as Id, Title, Body and Tags. Data preprocessing and cleaning was done to remove html tags and hyperlinks. Micro-Averaged F1-Score was used as performance metric as mentioned on Kaggle.

TECHNICAL SKILLS

• Languages: Python, C++, NodeJs

• Database: MySql,MongoDB

• ML/DL Toolkit: Keras, scikit-learn, tensorflow, pytorch, Onnx

• Others: Docker, Kubernetes, GitHub, svn, Jira, Perforce, Jenkins, Service Now

EDUCATION

- B.Tech in Electronics and Telecommunication from SGGSIE&T, Nanded with CGPA 7.7 (2011 2015)
- Class Xll (HSC), form Maharashtra State Board of Education with 83.33% (2009 2011)
- Class X (SSC), form Maharashtra State Board of Education with 90.92% (2008 2009)