MEDHAJA H L

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EDUCATION

Manipal Institute of Technology   Manipal, India
B.Tech in Computer Science and Engineering (Minors: Big Data)   May 2019

PROFESSIONAL EXPERIENCE

SourceFuse Technologies India Private Limited   Remote
Software Engineer-AI/ML   April 2023 – Present
- Designing and implementing robust machine learning pipelines using Sagemaker pipelines, leveraging cutting-edge technologies to develop scalable solutions. Additionally, I have successfully trained and optimized large-scale deep learning models, effectively improving their performance and accuracy.
- Conducted comprehensive interviews for prospective Machine Learning Engineers, evaluating their technical expertise, problem-solving abilities, and domain knowledge to identify top candidates for the position.

EXL Services   Gurugram, India
Data Scientist (Individual Contributor)   June 2021 – Dec 2022
- Performed Exploratory data analysis on the client data, data append from different sources and calculation of Credit scores in spark (pyspark), automating the process with Github Actions, containerizing them using Docker and Kubernetes for scaling up of the services using Kubeflow. Implemented Hyper Parameter Tuning in private cloud environment.
- Managed a team of two to create SaaS Automation tool using Python.
- Created NLP Question Answer model as a tool for Model Validation which reduced the turnaround time by a factor of 26x.

PyImageSearch   Remote
Machine learning Engineer (Freelancer)   June 2020 – Mar 2021
- Converted python projects into Cloud based Notebooks which includes version control, bug fixing and writing AI blog post.

Harman International (India) Private Ltd   Bangalore, India
Machine learning Engineer Intern   Sept 2019 – June 2020
- Developed end-to-end implementation of Anomaly Detection using Deep Generative models for real time data from 5G Telematics device using EMR. Implemented Deep Learning based Auto Encoder algorithm in Sagemaker(PyTorch), Data collection from AWS S3 bucket(Boto3), Data Preparation(scikit-learn and Numpy), AutoML and Neural Architecture Search for hyper parameter tuning(Scikit learn). Jenkins for Automating the Training.
- Deployed model in Client side, Server side[Docker, MLflow, Kubernetes] and Serverless (AWS Lambda). AWS Sagemaker was used for training the models.

SELECTED PROJECTS

Application of Differential Privacy for Transfer Learning, Manipal Institute of Technology   3 months
- Implemented Differential Privacy for Transfer Learning model using VGG16 architecture in TensorFlow.
- Obtained an accuracy of 0.67 with low epsilon value of 0.45. The whole project was executed in PARAM 8000 supercomputer.

Client-side deployment of MobileNet model using Tensorflow.js   3 months
- Binary Classification of Coco cola - Power bar images using Mobilenet architecture and was deployed in Static website as client-side deployment. Using Transfer learning Technique we have retrained Mobilenet model to identify Coco cola - Power bar and obtained an accuracy of 92.3% and trained in NVIDIA GeForce RTX 3060 GPU. Demo: Demo URL

Character Recognition based on Visual Input using Deep learning, Manipal Institute of Technology   3 months
- Recognized English Alphabets by the movement of the Pen's cap.
- Created data to train and evaluate the performance of the Deep neural network model. Manually annotated the data.
- Accuracy of 87% was achieved using OpenCV and Keras. Demo: Demo URL

PROFESSIONAL DEVELOPMENT

Duke University   Coursera
AI Product Management Specialization

DeepLearning.AI   Coursera MLOps
Specialization

University of Washington   Coursera
Machine Learning Specialization

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, SQL
- **Tools, Technologies, and Frameworks:** AWS, GCP, Git, Pandas, NumPy, Scikit-learn, NLTK, Keras, TensorFlow, PyTorch, Flask, Excel, Python Notebook, Scrum, Docker, Tableau, Django
- **Operating System**: Windows, Linux