Daanish M Mohammed

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Overview

Looking for junior-level roles in Machine Learning, Data Science and Software Engineering

Education

Georgia Institute of Technology, Atlanta, GA Aug 2021 – May 2023
MS in Computer Science, Specialization: Machine Learning GPA: 3.9/4.0

Birla Institute of Technology and Science (BITS Pilani), Hyderabad, India Aug 2016 – May 2020
BE in Electronics and Communications Engineering GPA: 8.2/10.0

Skills

Languages: Python, Java, SQL, HTML, CSS, JavaScript, MATLAB
Libraries: PyTorch, TensorFlow, scikit-learn, PySpark, NumPy, HuggingFace, LangChain, Dask, NetworkX, Ray Tune
Technologies: Git, AWS(Lambda, SageMaker, Glue), PostgreSQL, MongoDB, Redash, Hadoop, Jenkins, Azkaban

Experience

Machine Learning Engineer Jan 2025 – Mar 2025
GrubHub Chicago, IL

- Designed and authored an RFC for the Topic Ranker project, outlining a cross-validation framework to evaluate a new ranking model on non-random-ranker data. Developed ETL scripts and initiated cross-validation experiments before the project was interrupted.
- Analyzed the impact of HomePage Merchant Deduplication through a pre-post analysis, evaluating it's effect on Topic CTR & CVR across different market sizes and mealtimes.

Software Engineer Oct 2023 – Dec 2024
Andromeda 360 Austin, TX

- Developed ETL scripts using Spark in AWS Glue, to automate the daily download of Salesforce, Northbeam & GA4 data for the Sales Co-Pilot and Sales Dashboard applications. Integrated Slack notifications to notify about ETL job failure.
- Implemented Customer Segmentation models utilizing behavioral, and demographic data, to assist in personalizing ads.
- Built key features for the Sales Dashboard, displaying vital KPIs like Conversion Funnel, CAC, CLV & Revenue Sources

Data Science Intern May 2022 – Aug 2022
Koch Industries (Georgia-Pacific LLC) Atlanta, GA

- Implemented a License Plate Reader using Computer Vision methods (YOLOv5 + homography + OCR)

Projects

Evaluation of GNNs for Graph Classification without Node Attributes (Python, PyTorch, Ray Tune) Link

- Trained several Graph Neural Network models, such as GCN, GAT and GraphSAGE, on the REDDIT-BINARY dataset to learn to distinguish and classify the interaction between users on a Reddit post based on the underlying graph structure into 2 categories: (i) Question/Answer-based subreddit posts and (ii) Discussion-based subreddit posts.
- Evaluated the performance of these models on the Graph Classification task using accuracy and AUCROC score as metrics. We found that GraphSAGE (with 'add' as the aggregation operation) achieved the best performance, with an accuracy of 76.7% and an AUCROC score of 0.840.

Generation of Car Images using Generative Models (VAEs and GANs) (Python, TensorFlow, OpenCV) Link

- Built and trained VAE and DCGAN models on the Stanford Cars Dataset to generate synthetic images of cars.
- Applied pre-processing steps such as cropping, resizing, and rescaling to prepare the image data for the models. Used latent vectors of size 512 and 100 for the VAE and DCGAN models respectively.

Pneumonia Detection from Chest X-Ray Images (Python, TensorFlow) Link

- Built and trained a Deep CNN to classify Chest X-Ray images as 'Normal' or 'Pneumonia'. Performed hyper-parameter optimization to obtain a model configuration with a train accuracy of 97.6%, and validation accuracy of 92.6%
- Used Transfer Learning to fine-tune pre-trained AlexNet, VGG-16, and GoogLeNet networks on the data. Compared the performance of these networks using the validation accuracy, precision, recall, f1-score and false negative rate as the metrics.