Aisha Siddiqui

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https://www.linkedin.com/in/aisha-siddiqui-1100/
https://github.com/Ash58

SKILLS

Languages	Python, C++, Java, SQL, Node.js, R, Golang
Frameworks	PyTorch, Tensoflow, Keras
Technical skills	Spark, Kafka, Airflow, Cassandra, PostGreSQL, DynamoDB, Docker, Kubernetes, Deep Learning, BigQuery ML, ETL, MLflow, Kubeflow, AWS, GCP, Terraform, Jenkins, Ansible

TECHNICAL EXPERIENCE

MLOps Engineer   **March 2022 - Present**
Virufy

- Refactored standardizing and preprocessing scripts with Spark to scale up from handling audio cough datasets containing a few hundred data points to handling millions of data points.
- Proposed and designed a distributed solution, employing Kafka and Spark on AWS EKS, for a scalable live COVID-19 data ETL pipeline.
- Directed and implemented deployment of ingestion pipeline on AWS infrastructure.
- Collaborated with the machine learning team and other MLOps subteams to build a CI/CD pipeline to integrate data ingestion with downstream automated machine learning pipelines.

Backend Software and Analytics Intern   **October 2020 - February 2021**
Hydrus.AI

- Wrote event-driven serverless functions to perform CRUD operations on a document-based ledger database in response to new customer data.
- Built back-end authenticated GraphQL APIs for calling lambda functions related to database operations using AWS AppSync, ensuring that client company data would remain privately accessible to their owner.
- Designed schema for storing complex and nested data from ESG employee report surveys.
- Produced data analysis functions for populating front-end ESG metric visualizations.
- Conceptualized machine learning pipeline for an NLP model to detect green-washing for a product proposal to enterprise clients.
- Wrote data analysis functions that return data for data visualizations on a front-end ESG metrics dashboard.

PROJECTS

Machine Learning Platform on Kubernetes   **December 2022**
- Built Docker images and Kubernetes deployments for running Airflow orchestrated Spark jobs for model and pipeline development and deployment.
- Deployed platform deployments on Terraform provisioned GKE clusters with autoscaling.

Turbofan Engine RUL Prognostics Modeling   **September 2021**
- Investigated and analyzed C-MAPPS dataset for historical time series turbofan engine sensor readings from the C-MAPPS dataset.
- Tuned and Tested a Keras LSTM model for predicting turbofan engine prognostics based on the C-MAPPS dataset.
- Built REST API for model inference end point using FastAPI.
- Configured an ElastiCache server for deploying the dockerized inference app.

Distributed Graph Neural Networks   **December 2020**
- Coded multi-GPU implentations of SOTA graph neural network algorithms using PyTorch Geometric and PyTorch distributed data parallel libraries.
- Trained distributed GNN models on large fraud detection graph datasets via Slurm jobs on a UMIAC HPC cluster.

Mask Detection and Classification   **May 2021**
- Researched SOTA computer vision models for object detection and semantic segmentation for mask detection task.
- Coordinated implementation of YOLOv3 with darknet-53 architecture for mask detection task.
- Fine-tuned hyperparameters of mask detection model and performed data augmentation on dataset to improve model performance on a Kaggle face mask dataset.

EDUCATION

Bachelor of Science in Computer Science - Machine Learning, *University of Maryland, College Park*   **August 2021**
FourthBrain Machine Learning Engineering Bootcamp   **May — September 2021**

ACTIVITIES

Philosophy Club UMD

Aisha Siddiqui

- Ashburn, VA, US

Contact Information

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- 7038510789

Summary

Senior in Computer Science with Machine Learning Specialization at UMD. Familiar with software development and MLAI algorithms.

Work History

Total Work Experience: 5 years

- **Machine Learning And Mlops Engineer Virufy**
  Feb 01, 2022

- **Backend Software Developer/Analytics & ML Hydrus.Ai**
  Oct 01, 2020

- **Frontend Developer Myedmasters**
  Aug 01, 2019

Education

- **Bachelors** | University of Maryland

Skills

- **kubernetes** - 1 years

- **terraform** - 1 years
- **amazon s3**
- **amazon web services**
- **==aws== lambda**
- **==aws== sagemaker**
- **c**
- **css**
- **data analysis**
- **data science**
- **html5**
- **java**
- **==machine learning==**
- **==pytorch==**
- **software development**
- **sql**
- **statistical data analysis**
- **tensorflow**
- **apache kafka** - 1 years
- **deep learning** - 3 years
- **python** - 3 years
- **apache spark** - 1 years
- **c++** - 1 years

Work Preferences

- Desired Work Settings: No Preference
- Likely to Switch: False
- Willing to Relocate: True
- Travel Preference: 0%
- Preferred Location:
  - Seattle, WA, US
  - Mountain View, CA, US
  - Boulder, CO, US
- Work Authorization:
  - US
- Work Documents:
  - US Citizen
- Security Clearance: False
- Third Party: False
- Employment Type:
  - Full-time
  - Contract - Independent

- Contract - W2
- Contract to Hire - Corp-to-Corp
- Contract to Hire - Independent
- Contract to Hire - W2

Profile Sources

- linkedin: https://linkedin.com/in/aisha-siddiqui-1100
- Dice:
  https://www.dice.com/employer/talent/profile/504538ef3bf5ed29d1ec9b801b6e7a11