MOHD SADIQ

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EDUCATION

University of Cambridge
Master of Philosophy Machine Learning and Machine Intelligence   2022-2023

Jamia Millia Islamia University
Bachelor of Technology Computer Engineering   2017-2021

TECHNICAL SKILLS

- Machine Learning
- Python
- Scikit-Learn
- Tensorflow
- Keras
- PyTorch
- Docker
- SQL / relational databases
- Data Visualization
- Nvidia Triton / TLT kit
- AWS S3, Rekognition, SageMaker
- R
- Object-oriented design & Programming
- Pandas
- OpenCV
- Spark
- Hadoop

PROFESSIONAL EXPERIENCE

Robert Bosch Center for Data Science and Artificial Intelligence   Chennai, India
Project Associate   September 2021- August 2022
- Constructed a novel algorithm to reduce human induced biases while training machine learning models
- Managed the reinforcement learning based recommendation system project for Walmart Global Tech India
- Guided data scientists at Walmart with respect to reinforcement learning
- Designed optimized machine learning techniques for real-life scheduling problems
- Assisted in delivering machine learning techniques to technology and finance-based companies like National Stock Exchange and GAVS
- Assisted the project supervisor in various research-based projects by American Express, Sports Authority of India and Indian Ports Association

Wobot AI   New Delhi, India
Computer Vision Engineer   May 2021 – September 2021
- Implementation of bespoke models or pipelines for different use cases using Pytorch and Tensorflow and deployment of the models onto backend server (Triton).
- Use of Custom and SOTA for various computer vision tasks.
- Development of internal tools with respect to model testing, data augmentation, etc. using Docker.

Jamia Millia Islamia   New Delhi, India
Research Student   June 2020 – July 2022
- Researched, designed and developed various ML/DL models in Tensorflow, Keras and Pytorch in Computer Vision, Time Series Analysis, Object Detection, etc.
- Lead and guided team of skilled individuals in the respective research projects / papers in the field of DL/ML/CV.
- Visualization and improvement of performance metrics with respect to previously implemented SOTAs.
- Validation of proposed architectures in real life scenarios

MixOrg Consulting Services   Noida, India
Deep Learning Research Intern   November 2020 – January 2021

- Research on use of AI to improve the success rate of embryo transfer in IVF for humans.
- Designed a Deep Learning application using CNN, RNN, etc. that had improvements on performance metrics over previously implemented ML/DL models.
- Developed a synthetic fake image generation application using StyleGAN to determine what features were learnt by a Deep Learning model for positive and negative classes
- Developed a future embryo stage predictor application for predicting how the embryo would look at the end of its development stage using GANs
- Developed a Heat map generation model for inferences learnt by the model using Grad CAM, etc

PUBLICATIONS

Attention-Based Deep Learning model for Early Detection of Parkinson's disease   *Tech Science Press, CMC, 2021*

Fuzzy image enhancement based robust deep neural model for safety helmet detection   *IJFS, Springer, 2021*

SCS-Net: An efficient and practical approach towards Face Mask Detection   *ICMLDE, Elsevier, 2022*