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Mohd Sadiq

Website
GitHub
LinkedIn

Education

Masters in Machine Learning and Machine Intelligence **Oct 2022 - Aug 2023 (expected)**
University of Cambridge

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

Work Experience

Project Associate **Sep 2021 - Aug 2022**
RBCDSAI, IIT Madras *Chennai, India*

- Designed a novel human-in-the-loop learning algorithm that helped in reducing the human biases that are present in the ML dataset.
- Achieved an average accuracy improvement of 5% on various benchmark datasets.
- Assisted in reinforcement learning based recommendation system project for Walmart Global Tech India.
- Assisted in delivering machine learning techniques to technology and finance-based companies like National Stock Exchange and GAVS.

Computer Vision Engineer **May 2021 - Sep 2021**
Wobot AI *New Delhi, India*

- Developed a Ticket grading feature for the clients which lead to improved customer feedback.
- Deployed bespoke models or pipelines for different use cases using Pytorch and Tensorflow over Triton servers.
- Worked on solutions for activity recognition, gun detection, etc.

Research Student **June 2020 - Jul 2022**
Jamia Millia Islamia *New Delhi, India*

- Researched, designed and developed various ML/DL models in Tensorflow, Keras and Pytorch in Computer Vision, Time Series Analysis, Object Detection, etc.
- Authored 2 research papers that were published in reputed journals.
- Lead and guided team of skilled individuals in their respective research projects / papers in the field of DL/ML.

Internship **Nov 2020 - Jan 2021**
MixOrg *Noida, India*

- Researched on use of AI to improve the success rate of embryo transfer in IVF for humans.
- Designed ML models that improved accuracy over previously implemented ML/DL models (15%).
- Developed a synthetic image generation application using StyleGAN to enhance the existing dataset.
- Developed a Heat map generation model for inferences learnt by the model using Grad CAM, etc.

Projects and Publications

Ballistic Missile Range Simulator **Jan 2023**
Project Link
Image Similarity Model **Jan 2023**
Project Link
SCS-Net: An efficient and practical approach towards Face Mask Detection **Sep 2022**
Publication
FD-YOLOv5: A Fuzzy Image Enhancement Based Robust Object Detection Model **Apr 2022**
Publication Link
Attention-Based Deep Learning Model for Early Detection of Parkinson's Disease **Jan 2022**
Publication Link

Skills

Programming	Python, C,C++, R, Git, LaTeX, Matlab, MarkDown
Tech Stack	PyTorch, Tensorflow, SQL, Scikit-Learn, Docker, OpenCV, AWS Sagemaker, Pandas
Specialization	Machine Learning, Deep Learning, Computer Vision, Reinforcement Learning
Communication	English (fluent)