MEJBAH AHAMMAD

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DATA SCIENTIST

I have over 3+ years of expertise utilizing predictive modeling, data processing, and data mining methods to find solutions to difficult business challenges. I am a data scientist with a solid foundation in mathematics. Machine learning and deep learning are two areas that really pique my interest, and I am active in the Python open source community.

WORK EXPERIENCE

Teacher Assistant , American International University -Bangladesh Jan,21 - May 20,2021,

- I have been working as a teaching assistant for the **Artificial Intelligence** subject.
- Here I am assisting students who need more assistance to finish their AI assignments.
- Assisting educators in the planning and completion of AI projects as well as learning activities

Deep Learning Instructor, aiQuest Aug 2, 2021 - Present

- aiQuest is the AI based startups. They are basically worked in different branch of AI.
- I have joined as Deep Learning instructor. Here I have taken classes to provide the proper guideline of AI career with the real world use case based applications and knowledge.
- I have teaches my student on Convolutional Neural Network , Recurrent Neural Network and Artificial Neural Networks
    - In **Convolutional Neural Network**, I have covered GoogleNet/InceptionNet, MobileNetV1, VGG, Inception v3 V4 and Inception-ResNet. Residual Attention NN, Competitive Squeeze and Excitation Networks and so on.
    - In **Recurrent Neural Network**, Neural history compressor, Recurrent multilayer perceptron network, LSTM BI-LSTM GRU & BERT and other architecture were covered.

Kaggle Experts, Kaggle Jun 12, 2020 - Present

Award

- **Title: Best Research Paper Awards**
    - Topic: A Proficient Approach to Detect Osteosarcoma Through Deep Learning
    - **IEEE Conference Record No. : 54415**
    - Best Paper Award From IEEE Conference of ICETET SIP-22 || Track : Artificial Intelligence and Machine Learning

Research Work

- **Title: A Proficient Approach to Detect Osteosarcoma Through Deep Learning**
    - Published paper in IEEE 10th International Conference on Emerging Trends in Engineering & Technology Signal and Information Processing
    - Publishers:IEEExplore
    - DOI: 10.1109/ICETET-SIP-2254415.2022.9791502
- **Title: Parkinson Disease Detection with Explainable AI and Proposed Model**
    - Status: Submitted in the Q1 journal
- **Title: Drone Image Detection Using two stage Detection architecture**
    - Status: Submitted in the Q1 journal

EDUCATION

Master of Science in Computer Science | Dec 29, 2021 - Present
American International University - Bangladesh(AIUB)

Bachelor of Science in Computer Science & Engineering | Apr 2,2017 - Oct 10,2021
American International University - Bangladesh(AIUB)

Projects

- **Automatic License Number Plate Recognition System**
  - This project in machine learning seeks to accomplish the detection and recognition of a vehicle's license number plate as well as the reading of the license numbers that are written on the plate.
- **Google Search Analysis With Python**
  - Google receives 3.5 billion daily searches. Use Google Trends to see what others are Googling.
- **Finding Frauds While Tracking Imbalanced Data**
  - Fraud detection is a classification problem with unbalanced data, meaning fraud is the minority. Predictive algorithms struggle to derive economic value from uneven data, and outcomes may be wrong. I used three ways to solve the problem. Oversampling, undersampling, and combining
- **Uber's Deep Learning Customer Service**
  - Uber created COTA (Customer Obsession Ticket Assistant) to handle customer support tickets using a "human-in-the-loop" paradigm. COTA employs machine learning and NLP to rank tickets, diagnose problems, and offer fixes.
- **The process of developing titles for research papers**
  - This project trains GPT-2 on 2,000 arXiv article titles. I've used this software to create music lyrics, conversations, etc. I've learnt web scraping through this project since I need to scrape text from research articles for model training.
- **System for the Detection of Drowsiness in Drivers**
  - The sleepiness detection system I have to develop for this project is supposed to keep track of a person and seek for clues that might indicate whether or not they are feeling drowsy. The device will enable drivers to prevent accidents that may be brought on by tiredness.
- **Detection of Lung Cancer Through the Use of CNN**
  - Manually examining CT scans for lung cancer is ineffective. The goal is to have a deep learning network evaluate CT scan pictures and detect malignant lung nodules. For model training, utilize the LIDC-IDRI dataset of 1,010 CT scan pictures of lungs.
- **Detection of Human Postures**
  - This deep learning technique can recognize your camera posture. Human Pose Estimation has been predicted using many approaches. These techniques detect component pieces and their connections to estimate posture.
- **Deep Learning-based lane-detection system**
  - Based on an IEEE IV conference publication, I constructed a TensorFlow Deep Neural Network for real-time lane detecting. This model comprises encoder-decoder, binary semantic segmentation, and instance semantic segmentation with a discriminative loss function for real-time lane identification.

Projects

- Object Detection Using Both
  - One Stage Detection: **YOLO, YOLOv3, SSD, DSSD, DCN, etc**
  - Two Stage Detection: **R-CNN, Fast R-CNN, Mask R-CNN, FPN**
- **Machine Learning** project using traditional approach
- Deep Learning Project with real world datasets
- Real-time OCR and Text Detection with Tensorflow, OpenCV and Tesseract
- Traffic Sign Classification Using Deep Learning in Python/Keras
- Facial Expression Recognition with Keras
- **Emotion AI: Facial Key-points Detection**
- **Predict Future Product Prices Using Facebook Prophet**
- Data Science Projects with both (CNN + RNN) and traditional approach

Online Achievements

- Data Engineering, Big Data, and Machine Learning on-Google Cloud
- Mathematics for Machine Learning-Imperial College London
- Machine Learning on Google Cloud
- DeepLearning.AI TensorFlow Developer
- Advanced Machine Learning on Google Cloud
- Preparing for Google Cloud Certification: Cloud Data Engineer
- Google Data Analytics - Google
- Data Analyst in Python - Dataquest
- Data Scientist in Python - Dataquest
- Machine Learning Scientist , Data Analyst & Data Scientist with Python Track - DataCamp
- Become a Data Scientist - LinkedIn Learning
- Advance Your Python Skills for Data Science - LinkedIn Learning
- Become a Data Analyst - LinkedIn Learning
- Deep Learning - Cognitiveclass.ai
- Applied Data Science with Python - Cognitiveclass.ai

SKILLS

Statistical analysis and computing, Machine Learning, Deep Learning , Processing large data sets, Data Visualization, Data Wrangling, Mathematics, Programming, Statistics, Big Data, Data Science, Computer Vision, Big Data, Transfer Learning, Transformer, Explainable AI

Communication Skills, Storytelling Skills, Structured Thinking Curiosity , Effective Time Management , Creative Problem-Solving , Active Listening , Efficiency Under Pressure , Critical Thinking, Talented Customer Services

IMPORTANT LINKS

- Kaggle: @mejbahahammad
- Stack-overflow: 19989517/deep-neuron-ai
- Website: https://deepneuronai.com
- Zindi: @ahammadmejbah