

MD MALEK SARKER

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RESEARCH INTEREST

Machine Learning, Computer Vision, Data Mining, Network and System Security

ACADEMIC CREDENTIALS

International University Of Business Agriculture and Technology(IUBAT)

2018

Bachelor Of Science in Computer Science and Engineering

CGPA: 3.20/4.0

Final year Project: Development of an Enterprise Resource Planning (ERP) system.

Supervisor: Md. Rashedul Islam

PROJECT

Object Detection on PASCAL VOC Dataset

- I had hands-on experience with data augmentation including horizontal flips random brightness, and contrast adjustments. I applied a faster R-CNN model with a ResNet-50 backbone and replaced the pre-trained head with a new head suitable for the Pascal VOC dataset. The project includes visualization of the model's predictions on a set of images from the ImageNet validation dataset.

Image classification on CIFAR-10 dataset

- Defined custom Convolutional Neural Networks model using Keras functional API. The model consists of convolutional layers (Conv2D), batch normalization, max-pooling, dropout, and fully connected layers (Dense). The model is evaluated on the test set and the predictions are visualized using functions from Matplotlib libraries.

Heart Disease Prediction

- Worked with the heart disease dataset from the UCI repository. I had hands-on experience with dealing with missing values, categorical values, and preprocessing. After preprocessing, I applied Logistic Regression, Random Forest Classifier, and K-Nearest Neighbor. I had also practical experience evaluation metrics such as confusion metrics.

Cat vs. Dog Image Classification

- I had hands-on experience with data preprocessing, data augmentation. I defined my custom CNN architecture using Keras and TensorFlow.

TECHNICAL SKILLS

Programming Languages: C#, C, C++, Python, Javascript

Database: SQL, NoSQL

Frameworks: TensorFlow, PyTorchAngular, RxJS, ASP.NET Core

Interface: Machine Learning

Development Tools: Visual Studio, CodeBlocks, Jupyter NoteBook, Colab

Libraries: NumPy, Pandas, Matplotlib, Tensorflow

Version Control: Git & Github, Gitlab

PROFESSIONAL EXPERIENCES

CholPori
Software Engineer

September 2021 to present

- Optimized latency using caching, resulting in improved system overall performance and user experience.
- Solved concurrency problems and implemented and utilized messaging protocol for efficient communication between system components. Moreover, I worked for regular security audits, addressing vulnerabilities and ensuring compliance with industry security.

Infonet Associates
Software Engineer

April 2021 to September 2021

- I was a leading contributor to design and develop a robust system for Bangladesh Power Development, currently serving over 200 million users per month, demonstrating scalability and reliability.
- Optimized big data queries for analytics, enabling faster insights and decision-making.

LINGUISTIC PROFICIENCY

- English (Fluent Working Proficiency)
- Bangla (Mother Tongue)

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Best employee of the month July 2021, at Infonet Associates Ltd.
- Home Tutor (8th to 12th Grade)-December 2014 to February 2019
- Volunteer of IUBAT programming contest-2016

REFERENCES

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