Curriculum Vitae
PRAMIT DUTTA

Email: pdutta@uoguelph.ca
Website: Portfolio
Google Scholar: Scholar ID
LinkedIn: LinkedIn Profile
ResearchGate: My Account
Github: My Profile

Academic Credentials

Master of Applied Science in Computer Engineering Candidate

Affiliation with CSAI (Collaborative Specialization in Artificial Intelligence)

School of Engineering, University of Guelph

Guelph, Ontario, Canada September 2024- Present

Bachelor of Science (Engineering)

Department of Electronics and Telecommunication Engineering

CGPA:3.81/4.00

Chittagong University of Engineering & Technology (CUET)

Chittagong, Bangladesh January, 2018- March, 2023

Work Experience

Graduate Research Assistant
AI Enabled Medical Imaging Lab
University of Guelph September 2024- Present
Description: The AI-Enabled Medical Imaging Lab focuses on advancing health care solutions through AI-driven approaches. As a Graduate Research Assistant, I am developing and optimizing artificial intelligence models for multimodal learning, with an emphasis on creating innovative solutions for medical image analysis and improving patient care outcomes.

Graduate Teaching Assistant
ENGG*3390- Signal Processing
University of Guelph September 2024- December 2024
Description: As a Graduate Teaching Assistant in Signal Processing (Fall 2024), I was responsible for conducting laboratory sessions to help students grasp the fundamental concepts in signal processing. My role also involved grading assignments and invigilating exams. Additionally, I collaborated with the course instructor and fellow GTAs to design practical lab exercises that aligned with the course objectives.

Technical Skills

Programming Language: C, Java, Python (TensorFlow), MATLAB, LaTex

Engineering Software: Simulink, Fuzzy Logic Toolbox

Projects

1. Conv-ViT framework for Hybrid Feature Extraction **Check It Out**

- A triple stream feature extractor which fuse the feature

2. SSL with Transformation Prediction based Pretext Learning **Check It Out**

- A SSL approach which use Transformation prediction as Pretext task.

3. Communication System Prototype **Check It Out**

- Communication system prototype implemented in MATLAB Simulink

4. Stock Price Prediction **Check It Out**

-Designed a RNN model to predict upward or downward trend of Google Stock Price

5. Automatic Egg Incubator Using Mamdani Fuzzy Inference System **Check It Out**

- Optimizing Temperature and Humidity using Fuzzy Inference System

Research Experience

Publication:

Sl. No	Title	URL
01.	Conv-ViT: A Convolution and Vision Transformer based Hybrid Feature Extraction Method to Detect Retinal Disease Detection	[Check Out The Paper]
02.	Identifying Counterfeit Products using Blockchain Technology in Supply Chain System	[Check Out The Paper]
03.	COVID-19 Detection using Transfer Learning with Convolutional Neural Network	[Check Out The Paper]
04.	Optimization of Temperature and Relative Humidity in an Automatic Egg Incubator Using Mamdani Fuzzy Inference System	[Check Out The Paper]
05.	Multi-Classification of Brain Tumour Images Using Transfer Learning Based Deep Neural Network	[Check Out The Paper]

Undergraduate Thesis:

Title: Conv-ViT: A Convolution and Vision Transformer based Hybrid Feature Extraction Method to Detect Retinal Disease Detection [Thesis] [Publication]

Description: A triple stream feature extractor which fuse the feature extracted by Inception V3, ResNet-50 and Vision Transformer.

Supervisor: Dr. Md. Azad Hossain

Certification

1. Machine Learning an online non-credit course authorized by Stanford University and offered through Coursera **[External Link]**
2. DeepLearning.AI TensorFlow Developer Professional Certificate **[External Link]**
3. TensorFlow Advance Techniques Specialization Certificate authorized by DeepLearning.AI and offered through Coursera **[External Link]**
4. AI For Medicine Specialization Certificate authorized by DeepLearning.AI and offered through Coursera **[External Link]**
5. Internet of Things provided by Planeter Ltd. **[External Link]**

References

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