

Ahmad Imam

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🔗 AhmadImam - Github

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ACADEMIC CREDENTIALS

- Islamic University of Technology (IUT) Gazipur, Dhaka, Bangladesh
Bachelor of Science in Computer Science and Engineering January 2017 - March 2021
CGPA: 3.45 out of 4.00
- Notre Dame College Dhaka, Bangladesh
Higher Secondary Certificate August 2016
GPA: 5.00 out of 5.00
- Ideal School and College Dhaka, Bangladesh
Secondary School Certificate May 2014
GPA: 5.00 out of 5.00

RESEARCH EXPERIENCE

Undergraduate Research Work January 2020 - January 2021

Islamic University of Technology (IUT)

Thesis Topic: "Semantic Segmentation of Glomeruli in Human Kidney Tissue Images"

- Segment out different shapes and sizes of the glomerulus to identify malignant glomeruli in kidneys, preventing potential chronic renal disease and renal failure.
- A deep learning segmentation model LinkNet and EfficientNet used as an encoder having pretrained encoder weights from ImageNet dataset retains lost information from down sampling.
- Linear Bottleneck with inverted residuals prevents non linearity from destroying information and compound scaling is used to provide better results .

Supervisor: Md. Redwan Karim Sony

PROFESSIONAL EXPERIENCE

Battery Low Interactive

Dhaka, Bangladesh

Industrial Trainee

November 2019 - December 2019

- Received training on developing games based on real world application using Unity game engine.
- Worked on an educational 3d game for children and implemented augmented reality to make it more engaging.

PROJECTS

Multi-Label Genre Classifier

PyTorch, Numpy, Pandas, FastAI

- An approach towards building a deep neural network architecture that uses both spatial and temporal information to produce better accuracy in predicting Movie and TV Series Genre.
- A pre-trained Resnet50 model for image data and a pre-trained LSTM model to encode and train the text model were implemented using transfer learning principles along with pooling and custom neural network layers.
- The Multi-Label Movie and TV Series Genre classifier uses the Title Poster and Plot Summary to determine the genre with an accuracy of 85%.

Leafy

TensorFlow, Java, Python

- An android based mobile application built using deep neural network architecture that can classify different leaf disease from a captured photograph to help farmers protect their crops from diseases.
- The model was developed using the Inception v3 architecture which was later imported in the android application to provide instant prediction in mobile application.
- The application shows significant performance in correctly identifying 30 different leaf disease with an accuracy of 80%.

ShootAR

Unity, Vuforia, C#

- An augmented reality based 3d shooting game where enemies appear in real world after selecting a plain surface as the game world and the players have to move their camera to shoot them.
- An overall scoring system with different types of power ups like ammo restock and health pickups.
- There are several levels with two different unique bosses and their unique movements to make the levels more diverse.

African Wall Street

Flutter, Firebase, Dart

- An android application to create/view different categories of businesses where users can give ratings and reviews. Firebase is used as a database for the application.
- The application uses google map to take users current location to show businesses near him.
- There are some premium features like personalized notification, multiple business registration; payment is implemented using Stripe.

*Remaining projects are available on my [Github](#)

TECHNICAL SKILLS

Languages:	C/C++, Dart, Java, Python, PL/SQL, JavaScript, HTML/CSS
Frameworks:	TensorFlow, PyTorch, Flutter
Tools & Software:	Android Studio, IntelliJ, Eclipse, PyCharm, Google Colaboratory, Git, SQLite, VS Code, Cisco Packet Tracer, Network Simulator(ns-2),
Miscellaneous:	LaTeX, Microsoft Word, Microsoft Powerpoint, Blender 3D

STANDARDIZED TEST SCORES

International English Language Testing System (IELTS) - 11th November, 2021

Overall	Reading	Listening	Speaking	Writing
7.5	8.5	8.5	6.5	6.5

EXTRACURRICULAR ACTIVITIES

Executive Secretary

IUT Computer Society (IUTCS)

- Organiser of 9th and 10th IUT ICT Fest.
- Organiser and coordinator of Android Development Sessions by IUTCS.

REFERENCES

Md. Redwan Karim Sony

Department of Computer Science and Engineering

Islamic University of Technology

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