SAJIB BIN MAMUN

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🆔 Sajib Bin Mamun

SUMMARY

Having experience in Python AI-based software development, with expertise in AI/ML development, Computer Vision, and Image Processing. Skilled in Data Collection, Processing, Google Tools, and AI-powered decision-making systems. Strong knowledge of OOP languages, with experience in Python. Knowing Android development and integrating AI models with Android and web applications. Dedicated to applying AI to develop cutting-edge solutions across various platforms.

SKILLS

Languages: Python, Java, Kotlin, C++, C, HTML, CSS, Dart.

Technologies: Machine Learning, Deep Learning, Image Processing, Computer Vision, AI Deployment, Google Tools, Android, Android SDK Manager, Responsive UI, Android Widgets, MySQL, MSSQL, Firebase, Room Database, API, Retrofit, Dagger Hit, MVVM Architecture, Coroutines, Git, GitHub.

PUBLICATIONS

Scratch Vision Transformer Model for Diagnosis Grape Leaf Disease
5th International Conference on Trends in Computational and Cognitive Engineering, Kanpur Uttar Pradesh, India — **Accepted**

A Fuzzy-Based Vision Transformer Model for Tea Leaf Disease Detection
5th International Conference on Trends in Computational and Cognitive Engineering, Kanpur Uttar Pradesh, India — **Accepted**

A Comprehensive Study on Blood Cancer Detection and Classification Using Convolutional Neural Network
arXiv preprint, arXiv:2409.06689 — **Accepted**

A Comprehensive Image Dataset for the Identification of Lemon Leaf Diseases and Computer Vision Applications
Data in Brief, Publisher: Elsevier, Cite Score: 3.1, Impact Factor: 1.0, H-Index: 52, ISSN: 23523409 — **Accepted**

A novel AI-driven model for student dropout risk analysis with explainable AI insights
Computers and Education: Artificial Intelligence, Cite Score: 16.8, H-Index: 29, ISSN: 2666920X — **Accepted**

Fishdoc: A Mobile-Based Fish disease Detection System Using Yolov8
Available at SSRN 4899189 — **Preprint**

Grape Guard: A Yolo Based Mobile Application for detecting Grape Leaf Disease
An International Journal on Electronic Science and Technology, Cite Score: 4.3, H-Index: 17 — **In Revision**

Reducing Complexity in Transformer Network: A Novel PCCT Model for Lung and Colon Cancer Detection
Knowledge-Based Systems, Impact factor: 7.2, Cite score: 14.8, ISSN: 09507051 — **In Submission**

PROJECTS

Grocery Plus
An online shopping app, based on the firebase database. — **GitHub**

Barta
An online chatting app, based on firebase database, an authentication service is available. — **GitHub**

Leaf Error
An ML-based app, detect leaf error, XDense model in base. — **GitHub**

Grape Guard
Grape leaf disease detection app, YOLOv8 in base. — **GitHub**

Fish Doc
Detect Fish Disease, YOLOv5 in base. — **GitHub**

Makeup App
Rest API used, filtered through ML and followed by MVVM architecture pattern. — **GitHub**

Knowing Tools

Machine Learning Libraries	TensorFlow, PyTorch, keras, Scikit-learn
Data Processing	Pandas, Numpy, Apache Spark
Computer Vision	Transformer Based Models, CNN Based Models, Ensemble Learning, OpenCV, YOLO, TensforFLow Object Detection API, Model Interpreter, Feature Extraction
Data visualization	Matplotlib, Seaborn, Plotly, Scipy
Android Application Development	Android Design Materials, Android SDK Manager, Widgets, Layout, Views, MySql, RoomDatabase, Firebase, RestAPI, Dagger Hilt, Coroutines, MVVM Architecture Pattern, Git, GitHub.
Computer Fundamentals	Microsoft Office, Google Tools, Computer Hardware Setup & Installation, CMD Prompt, IP Configuration, Linux.

EDUCATIONS

06/2024 - Enrolled	**Daffodil International University**	University
	MSc, Department of CSE, Major in Data Science	
01/2020 - 02/2024	**Daffodil International University**	University
	BSc, Department of CSE, Result (3.94 out of 4.00)	
1/2018 - 12/2019	**Vasha Shaheed Abdul Jabber Ansar V.D.P School and College**	College
	HSC, Result (4.67 out of 5.00)	
1/2016 - 12/2017	**Vasha Shaheed Abdul Jabber Ansar V.D.P School and College**	School
	SSC, Result (5.00 out of 5.00).	

WORK EXPERIENCES

08/2024 - Present	**Journal of Knowledge-based Systems, ISSN: 0950-7051**
	Peer Reviewer (4 reviews for 1 publication/grant)
01/2024 – 12/2024	**4IR Research Lab, Daffodil International University**
	Graduate Researcher (Employee ID: 740000692)
11/2023 - 03/2024	**Kryzotech**
	Android Application Developer (Intern)

PROFESSIONAL CERTIFICATES

22/05/2024	**Android Application Development**
	Institution Name: CREATIVE IT INSTITUTE
	Certificate ID: EAPP DEV-22100412
01/08/2024	**Certificate of Reviewing**
	Journal Name: Knowledge-Based System
24/11/2023	**Certificate of Paper Presentation**
	Conference Name: 5th International Conference on Trends in Computational and Cognitive Engineering (TCCE-2023)
	Certificate ID: PSITKNP231123D0

EXTRACURRICULAR ACTIVITIES

01/2023 - 12/2023	**DIU Film Society Club**
	Treasurer
01/2021 - 12/2021	**DIU Computer & Programming Club**
	Executive Member

ACHIEVEMENTS

- **Blockchain Olympiad Bangladesh -2024 AI Category (7th Position)**
- **DIU Take of Programming Contest – 2020 (25th Position)**
- **ICPC Dhaka 2020 Preliminary Contest (526th Position)**

LANGUAGES

English - Good, **Bangla** – native, **Hindi** – Good.

REFERENCES

Dr. Md Taimur Ahad	**Mr. Mohammad Jahangir Alam**
Associate Professor and Associate Head	Assistant Professor
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