

# Junaed Hossain Jibon

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## LIFELONG LEARNER

### PROFESSIONAL SUMMARY

Highly motivated Computer Science graduate with a strong background in Deep Learning, Embedded Systems, and AI Research. Experienced in Python, TensorFlow, and IoT-based automation. Proven track record in leading projects, publishing research, and delivering real-world AI solutions. Recognized for academic excellence and hands-on skills in image classification, Explainable AI, and full-stack development.

### EDUCATION

#### UNIVERSITY OF ASIA PACIFIC

##### BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

June 2025 | 74/A, Green Road, Dhaka-1205

Dean's List (Two Semesters)

CGPA: 3.55 / 4.00

### EXPERIENCE

#### SOFT ROOT BANGLADESH | EMBEDDED SYSTEM ENGINEER

October 17, 2024 – Present | Dhaka, Bangladesh

- Designed and developed embedded systems integrating hardware with software for IoT automation projects.
- Collaborated with cross-functional teams to ensure seamless integration between sensors and software.
- Applied problem-solving and debugging skills to optimize system performance.
- Utilized Python for data handling and real-time IoT stream processing.

### PROJECTS

#### SMART IOT-BASED DUSTBIN [GITHUB] | PROJECT LEADER

Jan 2024 – May 2024 | University of Asia Pacific

- Built an IoT-enabled smart dustbin with ultrasonic sensors, ESP8266, and Arduino for touchless operation.
- Enabled real-time waste level monitoring, improving sanitation and reducing manual checks by 30

#### REPAIR ANYTHING [GITHUB] | WEB-BASED REPAIR REQUEST PLATFORM

July 2023 – Oct 2023 | University of Asia Pacific

- Developed a full-stack website for item repair requests using Python and Django.
- Implemented booking system and admin dashboard with secure database handling.
- Strengthened skills in backend development and SQL database management.

#### BANK MANAGEMENT SYSTEM [GITHUB] | JAVA-BASED BANKING APPLICATION

Apr 2023 – Jun 2023 | University of Asia Pacific

- Developed a desktop banking application using Java Swing and file handling.
- Simulated deposit, withdrawal, balance check, login authentication, and transaction history features.
- Enhanced object-oriented programming and GUI design skills through hands-on Java development.

# RESEARCH

## RESEARCH AND INNOVATION LAB | RESEARCHER

Aug 2024 – Present | University of Asia Pacific

- Developed and fine-tuned deep learning models (InceptionV3, VGG19, DenseNet201) for rice leaf disease classification.
- Achieved over 98% accuracy by using data preprocessing, augmentation, and transfer learning.
- Implemented Grad-CAM to interpret CNN predictions, improving model transparency.
- Utilized Python, TensorFlow, and Keras for model training, evaluation, and visualization.

# SKILLS

## MACHINE LEARNING & AI

Supervised learning, model evaluation, feature engineering, Explainable AI (Grad-CAM), data preprocessing

## DEEP LEARNING

CNNs (InceptionV3, VGG19, DenseNet201), TensorFlow, Keras, Transfer Learning

## PROGRAMMING & TOOLS

Python, NumPy, Pandas, Scikit-learn, Jupyter Notebook, Git, GitHub, SQL, Docker (basic knowledge)

## NLP (FOUNDATIONAL)

NLTK, spaCy, Hugging Face Transformers (coursework and self-study)

## EMBEDDED SYSTEMS & IOT

Arduino, ESP8266, sensors, motor drivers

# LANGUAGES

## PROGRAMMING LANGUAGES

- Python
- C
- C++
- Java

## SPOKEN & WRITTEN

- Native: Bengali
- Fluent: English

# HONORS AND AWARDS

## DEAN'S HONOR LIST | UNIVERSITY OF ASIA PACIFIC

Spring 2023 & Spring 2021

- Achieved GPA of 3.80/4.00 and recognized for academic excellence.

## ICPC ASIA DHAKA REGIONAL ONLINE CONTEST | ICPC FOUNDATION

2022 & 2024

- Participated in competitive programming and algorithmic problem-solving.

## MATH FEST 2.0 | UAP CSE MATH CLUB

28 October 2024 | University of Asia Pacific

- Participated in Math Fest 2.0 organized by the Math Club of UAP CSE Department.

## UAP INTRA-UNIVERSITY PROGRAMMING CONTEST | UNIVERSITY OF ASIA PACIFIC

2022

- Enhanced logical thinking and coding under time constraints.

## 4TH NATIONAL POWER AND ENERGY CAMP | BANGLADESH SCOUTS

20-23 December 2015 | Tangail, Bangladesh

- Participated in the 4th National Power and Energy Camp organized by Bangladesh Scouts and Power Division to promote sustainable energy and leadership.

## VOLUNTEER EXPERIENCE | EVENT SUPPORT ROLES

2022 & 2024

- Volunteered at ICPC World Finals Dhaka 2022, Ada Lovelace Programming Contest and UAP 10th Convocation.