

# MEHEDI HASAN NIROB

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## SUMMARY

Experience in developing and deploying Python-based backend and AI applications, with a focus on APIs, machine learning models, and production-ready solutions. Proficient in Python, Flask, FastAPI, TensorFlow, and OpenCV, with practical exposure to end-to-end development. Strong problem-solving ability and a collaborative mindset to contribute effectively to team-driven projects.

## EDUCATION

### DHAKA INTERNATIONAL UNIVERSITY

B.Sc in Computer Science and Engineering  
GPA: 3.71 January 2020 – January 2024

## SKILLS

- [Problem Solving](#) at [Codeforces](#), Hackerrank
- Python, C++, C, Dart
- Flask, FastAPI, Html, Css, SQL
- NumPy, Pandas, Matplotlib, Scikit learn, OpenCV, YOLO, Tensorflow LSTM, GRU, VGG, ResNet, MobileNet
- Linear/Logistic Regression, SVM, Random Forest, Decision tree, CNN

## CERTIFICATIONS

- Introduction to [TensorFlow](#) for AI, ML, DL
- [CNN](#), [NLP](#) in Tensorflow from Coursera.
- Supervised [Machine learning](#) Certificate from Coursera.
- Face Detection with [OpenCV](#) in Python from Great Learning.
- [Problem-solving](#) with [python](#) from HackerRank

## PUBLICATION

[Google Scholar](#)

M. M. Haque ... **M. H. Nirob**, "A Case Study of Human Segmentation in Multispectral Imaging," [IEEE ICCIA 2024](#).

## PROFESSIONAL EXPERIENCE

### Artificial Intelligence (AI) Engineer

EraVend GmbH & Co. KG. | June 2024 – February 2025 | Remote

### Coders- AI Training

Scale AI | Remote

### CP Problem Annotator

Acade.Studio | Remote

## THESIS PROJECT

### Deep Learning based approach to detect violence [Github](#)

- Created a unique video dataset, which contains 1000 videos
- Used several Deep learning model.
- Developed an Flask application to automate this task.
- Reducing reliance on human monitoring. our system identifies violent incidents, sends alert emails with detected frames and also violence location, and significantly improves response times.

## PROJECTS

- Backend API for my personal portfolio built with FastAPI [Github](#)
- AI Assistant Platform for Q&A, Generate Image, Content [Github](#)
- Object Detection Using pre-train model YOLO v8 [Github](#)
- Hand Digit Classification using Neural Network [Github](#)
- Simple dynamic chatbot using NLTK [Github](#)
- Age and Gender detection using OpenCV [Github](#)
- Human Resources Analytics using several machine learning algorithm [Github](#)
- Car insurance claim prediction using several machine learning algorithm [Github](#)
- Heart Disease prediction using Logistic Regression [Github](#)
- Diabetes disease prediction using SVM [Github](#)
- Loan status prediction using SVM [Github](#)
- Spam mail prediction using Logistic Regression [Github](#)
- Here is my all python code includes OOP, DSA, Machine Learning Libraries and solved problem of Codeforces and Hacker rank [Github](#)

## ONLINE JUDGE

1. [Github](#) 2. [Codeforces](#) 3. [Hacker Rank](#) 4. [LeetCode](#) 5. [Kaggle](#)