

NIPA DAS GUPTA

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EDUCATION

Nilai University

Bachelor in Software Engineering (Honours)

- Dean's List Award (twice), GPA 3.71
- Recipient of Best Student Award 2023

• Relevant Coursework: Object-oriented programming, Data Structures and Algorithms, Discrete Mathematics

Nilai, Negeri Sembilan

Nov 2022

Chittagong Engineering University School & College

Higher Secondary Certificate

- GPA: 4.17

Raozan, Chittagong

August 2015

Raozan R. R. A. C. Model High School

Secondary School Certificate

- GPA: 5.00

Raozan, Chittagong

May 2013

WORK EXPERIENCE

Xendity Sdn Bhd

Machine Learning Engineer Intern

- Enhanced e-KYC document verification processes through meticulous evaluation and optimization of face detection models, focusing on accuracy and speed.

Selangor, Malaysia

June 2022 - Sept 2022

Science Tutor

- Guided students in mastering science topics, assignments, projects, and tests.
- Explained complex science concepts in a clear and engaging way, promoting understanding.
- Gave positive feedback and updated parents on progress.

Chittagong, Bangladesh

March 2016 - Jan 2017

PROJECT EXPERIENCE

Detect Driver Drowsiness Face Expression Using Convolutional Neural Networks

Oct 2020 - Oct 2021

- Utilized Python to develop a supervised deep learning model for a drowsiness detection system using techniques such as SSD Mobile Net V2 to predict drowsy driver on 1.83 GB of the unstructured dataset using TensorFlow Object Detection API, which accomplished total precision and recall by approximately 88%. Training and testing were implemented in the Jupyter Notebook.

SKILLS

- **Programming Language & Aptitudes:** Python, SQL, C, C++, Java, HTML, JavaScript, CSS, Prolog, and PHP.
- **Technologies:** Visual Studio Code, MS Excel, and Git.

PUBLICATIONS

Gupta, N. D., Rajoo, R., & Jacob, P. J. (2023). Driver drowsiness detection system through facial expression using Convolutional Neural Networks (CNN). Malaysian Journal of Computing (MJoC), 8(1), 1375-1387.

LEADERSHIP EXPERIENCE

Nilai University Student Representative Council

Publicity and Communication Representative

- Spearheaded communication strategies, enhancing campus-wide student engagement.

Nilai, Negeri Sembilan

Oct 2019 – July 2021

Fun Club

Event Manager

- Organized a live Ludo and Bubble Shooter tournament, demonstrating my skills in strategic planning, coordination, and execution. This event significantly boosted community engagement and online interaction during the COVID-19 pandemic.

Nilai, Negeri Sembilan

June 2021

**Nilai University Undergraduate Research Conference
Host**

Nilai, Negeri Sembilan
December 2020

- Facilitated the presentation of scholarly research by undergraduates, ensuring smooth progression of sessions and fostering an environment of academic exchange and inquiry.

**Nilai University Orientation Counsellor Program
Emcee**

Nilai, Negeri Sembilan
August 2019

- Led orientation sessions for new students, providing essential university information and promoting a welcoming and supportive community environment.

**Nilai University Convocation Ceremony
Volunteer Usher**

Nilai, Negeri Sembilan
October 2019

- Assisted in ceremony logistics and guest guidance, contributing to the seamless execution of the convocation ceremony and enhancing the attendee experience.

**Sepang Gold Coast Beach Cleanup
Volunteer**

Sungai Pelek, Selangor
September 2019

- Participated in the Sepang Gold Coast Beach clean-up effort, demonstrating commitment to environmental sustainability and community service.

**Dataran Nilai Garbage Clean-up
Volunteer**

Nilai, Negeri Sembilan
June 2019

- Engaged in Dataran Nilai area clean-up activities, emphasizing environmental awareness and promoting cleanliness within the community.

**Pesta Sains Negeri Sembilan
Volunteer**

Nilai, Negeri Sembilan
June 2019

- Supported science festival operations, aiding in the promotion of computer science education and engagement among youth and the broader community.

**Chittagong Engineering University School & College Farewell Ceremony
Volunteer**

Raozan, Chittagong
May 2014

- Facilitated event logistics and activities, contributing to a memorable farewell for graduating students and fostering a sense of camaraderie and closure.

GRANTS AND AWARDS

- Best Presenter Award, International Conference on Science, Technology, and Social Sciences, 2022
- Software Engineer Virtual Experience Program Award, Quantum, 2022
- Completed Software Engineer Virtual Experience from JPMorgan Chase & Co., 2022
- International Sports Award Scholarship, Nilai University, 2018
- Receive Merit-Based Scholarship – 50% Scholarship Award (twice), Chittagong Engineering University School & College, 2013-2015
- Certificate of Merit, Raozan Club, 2013