Rituraj Dutta

Hard-working result-oriented programmer with a flair for creating elegant solutions in the least amount
of time with 3+ years of experience in the field of programming.

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EDUCATION

Gauhati University Institute of Science & Technology, Guwahati,India — *Btech(IT)*

August 2019 - Present

Currently Pursuing my BTech(Bachelor of Technology) in Information Technology(IT).

Maharishi Vidya Mandir-I, Guwahati,India — *Higher Secondary(10+2)*

May 2017 - Feb 2019

Scored 83% in Science with Physics, Chemistry, Mathematics, Computer Science and English.

Maharishi Vidya Mandir-II, Guwahati,India — *10th Board*

Feb 2017

Scored 10.00CGPA in 10th Board Exam.

PROJECTS

Banking Management System

An high school project on banking management system using

C++ and MySQL using an Object-Oriented approach.

Cab Finder

This project written in C++ is used to find the details of the driver

of a cab given the GPS coordinates of the customer previously

SKILLS

- C/C++
- Python
- Data Structures and Algorithms
- Git
- OpenCV
- Machine Learning
- Deep Learning
- Reinforcement Learning
- Linux
- Object Oriented Programming.

AWARDS

Utkranti-4.0 Hackathon (03/2021 – 03/2021)

Selected among top three for developing a solution to classify students based on their logical ability by using EEG signals and building a Machine Learning Model in Matlab.

Utkranti-3.0 Hackathon (02/2020 – 02/2020)

Selected among top five for developing a solution to automate farming techniques

Best Programmer in C++ (12/2017 – 12/2017)

Won the title of best programmer in C++ in CyberFest 2017 at high school

High School Topper in Computer Science

defined in the code(in terms of latitude and longitude) and a .json

file which contains GPS coordinates and information of all the

drivers. The output .json file contains the necessary details of the

driver in the proximity.

Text to Handwriting

This program written in python converts a text file into a

handwritten pdf file

Virtual Screen Pen

The algorithm tracks the position of the blue pen in the frames

continuously and a line joins the previous coordinates with

current coordinates. Different morphological transformations

have been used to reduce noise in the frames.

Age Calculator Website

This website calculates your age by taking input in dd/mm/yyyy

and displays your age in terms of

years/months/days/hours/minutes/seconds.

Test Menu Based Renderer using OpenGL

Implemented a test menu based Color and Texture Renderer using OpenGL.

Logistic Regression Practical Case Study

Detect breast cancer by applying a logistic regression model on a real-world dataset and predict whether a tumor is benign or malignant based on its characteristics.

(05/2017 - 05/2019)

I was the topper in the domain of computer science in my high school for

5 consecutive times.

LANGUAGES

English, German, Hindi, Assamese, Bengali

COURSES

Design & Analysis of Algorithms

Chennai Mathematical Institute

- Asymptotic complexity
- Sorting & Searching
- Graph Theory
- Design Techniques: Divide & Conquer,Greedy,Dynamic
- Data Structures: heaps,union of disjoint sets,search trees
- Intractability

Certifications

Udemy

- **Advance Python Programming**
- **Machine Learning A-Z**