ASHISH MUKHERJEE

Maharashtra Institute of Technology

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**** 8800730916

• https://github.com/funnybutnotsofunny

EXPERIENCE

Research Intern - RODELLA TECHNOLOGIES PVT. LIMITED

3D Terrain Mapping for Smart Localisation of Heterogeneous Swarmed UAV's

May 2021 - November 2021

- Innovated in Smart Algorithms Division.
- Studied GIS(Geographic Information System) to integrate, heat, height and terrain map.
- Modified Q-Ground Control, using QML and C++ to debug and update GUI of ground control station for heterogeneous swarming application.
- Analyzed 5 triangulation techniques for target identification from aerial footage and decreased the time complexity from $O(n^2)$ to O(n).

Front-End Developer

MIT ADT UNIVERSITY

April 2021 - September 2021

- Made various forms for registration, login, sign up etc. using HTML, CSS and Bootstrap.
- Increased efficiency by 40% by implementing new development strategy.

Jr System Developer

SoftTech Data Securities

April 2019 - July 2019

- Operated in Department of algorithms (AI,ML,NN) to research optimised methods for identifying morphed or fabricated images and audio.
- Formulated algorithms for Face detection, wrote module for video frame extraction, face detection and recognition.

TECHNICAL SKILLS

- Programming Languages: C/C++, Java, HTML, CSS, Java Script
- Software Packages: Visual Studio
- Operating Systems: Ubuntu, MS-Windows

PERSONAL SKILLS

- Administered the cultural team in SAR organisation.
- Led the music team in college.
- Prevailed in 2 rounds of ADT talks.

EDUCATION

BTECH (CSE) - 8.3 CGPA

Maharashtra Institute of Technology

2019 - Currently

Higher Secondary - 82%

Central Board of Secondary Education

2017 - 2018

Secondary - 9.6 CGPA

Central Board of Secondary Education

2015-2016

PROJECTS

ADS Encryption System

 Built an encryption algorithm from scratch using different Data structures and algorithms integrating the concepts of DSA and cryptography.

FILLET (Cinema 4D)

- Incorporated Polygon mesh processing (Voronoi, Delaunay, Hexagon, Triangular Topologies) and explored Graph Simulation Neural Networks for Fluid simulation.
- Implemented 2 tools: fillet and subdivision edit tool for generic polygon Wire frame modelling.

HANDY CP

- Created an open-source repository in GitHub containing about 200 questions.
- Explored topics including DP, backtracking, graphs, trees and other topics which are important for programming.

QUAINT

- Built an app: Quaint is an android app that aims at giving a platform to Indian businessman a platform to legitimately sell vintage, collectible, antique, collectible and period pieces.
- Developed options to get a certification of authenticity and an algorithm that works to find the approximate cost of the object based on 5 factors. Option to keep an auction of a product.