Ankan Hore *Curriculum vitae*

Contact Information

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Research Interests

Machine Learning, Data Science, Algorithms, Image Encryption and Cryptography

Education

Institute of Engineering & Management, Kolkata 2018(Expected)
University: Maulana Abul Kalam Azad University of Technology
Formerly known as West Bengal University of Technology

- Department of Information Technology
- Overall CGPA: 8.6/10 (Till Seventh Semester)
- Current Status: Final year student (June, 2018 - Expected)

Delhi Public School, Dhanbad 2014
- CBSE(12^{th} Standard)
- Aggregate: 94%

De Nobili School,CIMFR,Dhanbad 2012
- ICSE(10^{th} Standard)
- Aggregate: 92.4%

Conference Publications

1. **Ankan Hore**, Tapan Kumar Hazra, "A comparative study of Travelling Salesman Problem and solution Using different Algorithm Design Techniques", *7^{th} Annual Information Technology, Electronics and Mobile Communication Conference* (IEMCON), IEEE.(DOI: 10.1109/IEMCON.2016.7746316)

Scientific Research Experience

SEP, 2015 to Present — Implementation of Algorithms in real-life problems, Cryptography, Data Security, Machine Learning
Advisor: Prof. Tapan Kumar Hazra
- Dept. of Information Technology
- Institute of Engineering & Management, Kolkata.

Projects

Grant Application Submission and Tracking System (Aug 2017 - Ongoing)

Guide 1.: Mr. Prakash Bagsaria (Persistent Systems)
Guide 2.: Dr. Shiv Kumar Harti (Ministry of AYUSH)

This project is aided by the MHRD, AICTE and the Govt. of India at the Smart India Hackathon, 2017. Ministry of AYUSH through its research councils invites research projects from its various stakeholders. We have totally automated the system of submission of applications and its tracking under the guidance of the Ministry. The proposed solution will provide an interface through which the interested individual can directly upload the research protocol in desired format as well as a method to check the real time status of submitted application. The official administrators can make changes to the application status as and when required.

Facial Recognition using Machine Learning approach from self-prepared datasets (December 2017 - May 2018)

Guide 1.: Prof. Tapan Kumar Hazra

We had implemented this technique using Machine Learning. Initially, we collected sufficient data from the various images taken by our machine and stored them in the face database by giving every element an unique ID(which is displayed once the face gets recognized). Then, we implemented HAAR Cascade Classifier as the algorithm to fetch the facial features. The popular Local Binary Patterns Histograms (LBPH) recognizer is used to recognize the faces live on a Windows OS machine. Finally, when we get higher match ratios between the test data and trained data, we obtain the recognized face along with its ID. If not, the unrecognized face would be displayed with proper message.

Training

Core Java (Dec 2015 - Jan 2016)
Organization: HP Education Services (Kolkata)

In the training period I learnt all the very basic details of Object Oriented Programming and its implementation in Java. The programming language consists of various methods which got executed by the creation of objects for that particular class. The idea about data encapsulation, different forms of inheritance, polymorphism(static & dynamic) were implemented in various other programs.

Achievements -cum- Extra-curricular activities

- Ranked **5th** in Smart India Hackathon 2017 and received the **Deloitte Innovation Award** for the Ministry of AYUSH, Govt. of India as Team Lead.
- Shortlisted for Summer Internship program, 2017 at IIIT Allahabad.
- Campus Ambassador for Internshala Student Partner 7.0 at IEM Kolkata.
- Independent Blogger at WordPress.

Relevant Coursework

(i) Data Structure and Algorithms (ii) OS and Compilers
(iii) Probability (iv) Computer Organization
(v) Object Oriented Programming (vi) Graph Theory

Online Courses

(i) Introduction to Machine Learning
(ii) Basics of R
(iii) Basics of Python

Technical Skills

- Programming Languages: C, Java, Python.
- Mathematics: Linear-algebra, Probability, Graph, Discrete, Statistics

References

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