Nilagnik Chakraborty

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github.com/agnibrainhack

3rd year B.Tech Computer Science student at Government College Of Engineering and Ceramic Technology with excellent academic record ,keen interest and practical exposure in the field of Psycho Linguistics, Document Forensics, Android app devlopment, backend devlopment and artificial intelligence.

ACADEMIC QUALIFICATION

Program	Institution	CGPA	Completion
B Tech(Computer Science & Engg.)	GCECT	9.10	Upto 4th Sem
XII	CBSE Board	92.2 %	2016
X	ICSE Board	94.6 %	2014

TECHNICAL SKILLS

Programming Languages:
- Python for Deep-learning (Keras, Tensorflow)
- Python for inference and machine Learning (Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn)
- Java-Android Development (Knowledge of Retrofit and Rx-Java , Realm persistence)
- Core Java
- JavaScript
- C/C++
- Linux/BASH

Web Technologies:
- Node.js
- Flask
- MySQL
- MongoDB
- Git/Github
- Firebase
- Selenium
- HTML, CSS

INTERNSHIPS

Intern Centre for Development of Advanced Computing   July'18

Document forensics, forgery identification and writer verification by artificial intelligence. Successfully implemented an algorithm for line and word detection from handwritten documents. Also worked on deception detection by algorithmic extraction of psycho linguistic features.

Research-Intern Jadavpur University   April'18

Developed a deep learning model under Dr. Sarmistha Neogy to classify an individual's face by using a Siamese style network. In the process we are found out various optimization heuristics for very low epoch feature extraction, to truly achieve one shot learning. Paper due to be released in this November.

Ikure-Techsoft Pvt-Ltd   Jan-Mar'18

Worked alongside a wonderful team to develop android applications. The app is designed to revolutionize healthcare solutions even at the last mile. I implemented an interface between the health workers and patients. The patients can

request a doorstep medical service from the nearest unit in no time, health worker on the other hand would receive an instant notification. The app comes with loads of other features like blood sugar monitoring, blood pressure monitoring, ECG reports and prescriptions issued by doctors with graphical representation of the trends of the above.

ACADEMIC PROJECTS

512Bit   Encryption   System   **April'17**
Designed an unique 512 bit encryption system of its kind. Written in python the project is a part of the academic research project that I am undergoing under Prof. Bijoy Mondal (NIT Durgapur). The paper is in development stage and shall be released soon.

Smile   Analysis   App   **Jan'17**
Using django created a REST-API which is used as an endpoint for smile detection. Then went on to make a native android application (Java) which can be used to recognize a face and its emotion. Used Open-CV for analyzing the data in this purpose.

Earthquake   News   App   **Oct-Nov'17**
As a part of an individual project, developed a native android app which provides every bit of information about earthquakes which took place at any place on this earth. It provides information about earthquakes from the year 1940 to about 6 hours before the current time (As per USGC API service). The app is for school education purpose, the app is hosted in Github.

Frenzy   Chat   App   **Sep'17**
Created a group discussion forum for students of my college. The app is extremely powerful with messaging as well as file sharing options, also comes with authentication. The app uses all features of firebase and is lightweight, it is hosted in Github.

Nearby   Places   App   **Aug'17**
A robust app which shows details about nearby places like restaurants, hospitals etc. It is unique for its ability to be paired with other apps (Doesn't use pre imported code). The app uses Google-maps API, it is hosted in Github.

TRAININGS & CERTIFICATIONS

- Intel Machine Learning Workshop – Indian Statistical Institute Calcutta   **Jul'18**
- Six weeks Android Development training & certification -Internshala   **Jun-Jul'17**
- Deeplearning.AI by Andrew Ng at Coursera   (Undergoing 4th Course in Specialization)   **Current**

ACHIEVEMENTS

- Selected in Google Challenge Scholarship for Android development conducted by Google and Udacity.
- Chosen as the best student in Maheshtala Municipality area for performance in AISSCE-17 conducted by CBSE.

EXTRA-CURRICULAR ACTIVITIES

- Analysing evolution of defence technologies and functioning of troops around the globe.
- Love to travel and impart knowledge from other cultural groups of the country.
- Hobbies include graphology and human behaviour analysis.