Rahul Ranjan

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ABOUT

As a Computer Science Under-Graduate with experience in Computer Programming (coding) and familier with wide range of IT Applications & Softwares and has a keen interest in Machine Learning and Artificial Intelligence. As an initiator and task oriented team worker seeking for a position/an internship in a good and recognised Organisation to develop and enhance my skills.

INTERESTS

Machine Learning, Artificial Intelligence, Natural Language Processing, Image Processing, Android & Web Development .

PUBLICATIONS

[1] Finding out the needy one from Tweets : An analysis using #kerelafloods
Rahul Ranjan, Himangshu Sarma, Navanath Saharia
Presented the Paper in 3rd International Conference on Contemporary Computing and Infor- matics (Gurgaon, India), 2018 - IEEE Delhi Section.
[2] A speech-based driver assisting module for Intelligent Transport System
Rahul Ranjan, Himangshu Sarma, Navanath Saharia
Presented the Paper in 3rd International Conference on Contemporary Computing and Infor- matics (Gurgaon, India), 2018 - IEEE Delhi Section.

RESEARCH PROJECTS

A Machine Learning approach for predicting Coronary Heart Disease (CHD) using Risk Factors
*January 2019 - Present [**IIITS**]*
- Various risk factors which are responsible for heart diseases such as age, sex, height, weight, heart rate, diabetic level, cholestrol level, etc used in predicting the CHD.
- The dataset for the project is taken from the UCI Machine Learning Repository https://archive.ics.uci.edu/ml/machine-learning-databases/arrhythmia/
- The System is trained on the dataset by applying classifiers such as Logistic regression, SVM, etc. to predict other types of CHD (such as Tachycardia, Bradycardia and Coronary artery diseases using ECG signals) to make it more efficient.

Building and Using Comparable Corpora for Machine Translation   *Summer 2018 [**IIT BHU**]*
- Used Machine Learning algorithms for finding the solutions the problem.
- To make a Parallel Corpus from a Comparable Corpus obtained from wikipedia dumps for Hungarian-English Language.
- Used SVM, Logistic Regression and Random Forest Classifier on the training and testing data to achieve an accurate of the model.

Finding out the needy one from Tweets : An analysis using kerelafloods   *Autumn 2018 [**IIITS**]*
- Worked on Identifying relevent words from Tweets to help People during disasters (flood).
- Implemented Topic Modelling to analyse the use of the system & Used K-Means, LDA. in order to help NGOs, Government agencies to help People in kerala during this destructive flood situation

Sentiment Analysis for racist/provocative words identification from Tweets   *Winter 2018 [**IIITS**]*
- Worked on detecting the hate speeche containing Tweets.
- Used a pre-labelled data for training and testing the model.
- Machine Learning algorithms were used (SVM, Logistic Regression) to obtain an accurate system.

ACADEMIC PROJECTS

Appointment Management System (Android)   *Spring 2018 [**IIITS**]*
- The proposed system was built as Android Application which will read the received messages from android device and extract the date and time or words like tommorow , yesterday,etc. from messages.
- The Application will Store these time and dates in the database and manage appointment calendar for you.

Library Management System & Tnp Website (Web)   *Spring 2018 [**IIITS**]*
- Built Training and Placement Cell Website of IIIT Senapati.
- The Application will Store these time and dates in the database and manage appointment calendar for you.

EDUCATION

Indian Institute of Information Technology Senapati, Manipur   **Imphal, India**
*Bachelor of Technology [6th Sem (**Junior**)]*   *July 2016 - Present*

G.C.S.S   **Purnia, India**
Senior Secondary School   *April 2014 - May 2016*

India Public School   **Purnia, India**
Secondary School   *April 2012 - May 2014*

KEY SKILLS

Programming Languages : Fluent in Python, C++; Familiar with Java & C, PHP, Java Script.
Libraries : Pytorch, NumPy, TensorFlow, Scikit-Learn.
Software Skills : git, MATLAB, GNU Octave, AutoCAD, LATEX, CMake
Web Development : HTML, CSS, JavaScript, PHP, Django, MySQL, PostgreSQL.

EXPERIENCE & ROLES

FOSSASIA -An Open Source Organisation   **H.Q.- Singapore**
Open Source Developer   *July 2018 - Present*
- A regular & active contributer at FOSSASIA via Github and Gitlab.
- Contributed in various FOSSASIA projects such as SUSI.AI, phimpme-android, open-event-android,etc.
- Attended events of FOSSASIA & Open-source at several places.

Indian Institute of Technology BHU   **Varanasi, India**
Summer Research Intern   *May 2018 - July 2018*
- Designed and built the Parallel Corpus from Comparable Corpus for Machine Translation.
- The Parallel corpus was built for English-Hungarian language so enhance the use of these languages at large scale.
- The project is extended for developing such system for Indic languages.

Indian Institute of Information Technology Senapati   **Imphal, India**
Project Assistant   *Sept 2018 - Present*
- Working as a Project Assistant under Dr. Navanath Saharia , Assistant Professor , IIIT Senapati.
- Working on Topic Modelling for data related to disaster realted data.
- The project aims at implementation of NLP & Machine Learning concepts for clustering the disaster related data and their Topic Modelling.

AWARDS AND ACHIEVEMENTS

- Winner at FOSSASIA (OpenTechNight) Competition and invited for FOSSASIA Open Tech Summit 2019 at Singapore.
- Rated Programmer on Competitive Programming Sites.
- Received rewards for contributing to Open-Source Projects.
- Selected as Delegate for Harvard Project for Asian & International Relation in Technology & Innovation track for the two consecutive events at Kuala Lumpur (Malaysia) and Boston M.A. (USA).
- Received 3 Summer Internship Offers from IITs (in 2018) to Work in the field of NLP & Machine Learning.
- Rewarded for developing Assistant Application / Alexa Skills for Google Assistant and Amazon Alexa respectively.
- Received Certificate of Excellence in C, C++, Linux, Java & LATEX organised by IIT Bombay.

HOBBIES & MORE ABOUT ME

- Open Source Contribution, Competitive Programming, Editing wikipages, Cricket, Watching Documentries & Web series.
- http://rahulranjan.eu5.org/
- Passport No. - **M0521674**