



# Raunak Rathi

Research Scholar (B.I.T., Mesra)

Deep thinker and quick performer

✉ raunakrathi.rathi@gmail.com

📞 9021904006

📍 Akola, Maharashtra, India

## EDUCATION

### PhD

Birla Institute of Technology, Mesra - 9 S.G.P.A.  
(2 yr completed)

08/2018 – Present

Ranchi, Jharkhand, India

Machine Learning

- keyword Extraction (NLP domain)

### M.tech

Government College of Engineering, Amravati

06/2013 – 06/2015

Amravati, Maharashtra, India

Courses

- Project

## PERSONAL PROJECTS

Protected Removal of Connection Rules in Straight Disseminated Database (06/2014 – 05/2015)

- Master project

Sepsis Disease Prediction collaboration with the University of Alabama Prof. (U.S.A.) (02/2020 – Present)

- Applied LSTM, convolution network still looking for better model

Application of differential evolution for keyword extraction (target to extract keywords from single document) (02/2019 – Present)

- Improving maths for better results

Sentiment Analysis using emojis (05/2020 – Present)

- Collected comments and emoji from Youtube
- Applying deep learning techniques and analysing the results

Prediction of Korean Rail fault Collaboration with the University of Alabama Prof. (U.S.A.) (06/2020 – Present)

- Model generation phase

## SKILLS

Python

keras

Java

Android studio

Latex

LSTM

Convolution Neural Network

Recurrent Neural Network

Term weighting techniques (NLP)

ML Algorithms

Deep Learning Models

## ACHIEVEMENTS

Application of differential evolution for keyword extraction (2019)

Poster Competition, B.I.T., Mesra 3rd Prize

Stackoverflow (12/2018 – Present)

<https://stackoverflow.com/users/4683899/raunak-rathi>

HackerEarth.com (08/2019 – Present)

<https://www.hackerearth.com/@raunak170>

## PAPER PUBLICATIONS

UWAKE: An Algorithm for Automatic tag generation for text documents using Word Neighbourhoods (tag extraction algorithm)

status: communicated in Computational Linguistics, Publication House: MIT Press (SCI) (A\* core journal)

Extraction of tags from a single document using Softmax weighted metric (tag extraction algorithm)

Presented Poster in International Conference SKM in AI, 2019, B.I.T.S., Goa (Scopus conference)

Designing an efficient single gram keyword detector for documents using Relative Entropy. (one-gram keyword extraction technique)

status: Communicated in IETE journal of research, Publication House: Taylor & Francis (SCI) (C core journal)

The importance of term weighting in semantic understanding of text a review of technique (Review paper on term weighting) (03/2020 – 07/2020)

status: communicated in Arabian Journal for Science and Engineering Publication House: Springer (SCI)

## CERTIFICATES

Sun Certified in java (2011)

SUN ID- SUN710932

## INTERESTS

Coding

Problem Solving

Reading