Patna, Bihar, India

Patna, Bihar, India

Nalin Kumar

Contact

241, SOH-4, NISER Campus Jatani, Odisha 752050

+91 77177 80747

nalin.kumar@niser.ac.in knalin55@gmail.com

knalin55.github.io

Languages

English, Hindi, Magadhi

Programming Languages & Libraries

C, Python, R, HTML, Keras, Tensorflow, Numpy, pandas, Matplotlib

Skills

Windows

(XP, Vista, 7, 8, 10)

NLP

Computer Vision
Inferential Statistics
MATLAB, Mathematica
Netbeans, Streamlit
Visual Studio Code
Data Analysis
Anaconda
RStudio
MySQL
LATEX
Linux
(Ubuntu 18.0.4 LTS
Ubuntu 19.0.4 Mate)

Education

2016 – 2021 National Institute of Science Education and Research

Integrated MSc

Major: Mathematics || Minor: Computer Science

2014–2016 DAV Public School

92.3%, All India Senior School Certificate Examination (2016) by CBSE

2014 St. Karen's High School

9.4 CGPA, Secondary School Examination (2014) by CBSE

Interests

Machine Learning

Machine Learning Algorithms, Artificial Neural Network, NLP, Computer Vision

Statistics

Parametric & Bayesian Statistics, Hypothesis Testing

Work & Experience

Summer' 20 TATA Steels

India

Internship

Worked under Head of Advanced Analytics, Kalinganagar and Head Analytics Marketing and Sales.

- Worked on detection and counting of steel reinforcement bars using deep learning.
- · Worked on Dealer names matching (Entity Matching) using Machine Learning.
- Worked on Document Verification for FAMD Exports, TATA Steels, using text analytics and its UI development. The estimated cost saving through the project is 1 Cr. INR per annum.

Even Sem '20 NISER

Bhubaneswar, India

Semester Project

Semester Project under Dr. Subhankar Mishra on Computer vision.

- Emotion detection of Tom & Jerry.
- COVID-19 Face-mask Detection.
- · Analysis of existing face detection algorithms.

Winter '19 **JNU**

New Delhi, India

Internship

2 weeks winter internship under Dr. Narinder Singh Sahni on Gaussian process.

Odd Sem '19 NISER

Bhubaneswar, India

Semester Project

Semester Project under Dr. Subhankar Mishra on Artificial Neural Networks.

- Text & image classification.
- Multimodal fusion of text and image for sentiment analysis.

Summer '19 JNU

New Delhi, India

Internship

Summer internship under Dr. Narinder Singh Sahni on Regression Analysis.

Summer '18 IIT Hyderabad

Hyderabad, India

Internship

Summer internship under Dr. Narasimha on Introduction to Cryptography.

Summer '17 HRI Allahabad, India

Internship

Summer internship under Prof. Kalyan Chakraborty on Group Theory.

Achievements

Finalist in Battlefield (Data forecasting case study) held at Techkriti 2017, IIT Kanpur & Tiger Analytics.

Winner of NEC IIT Bombay and CBIT, Hyderabad Presents BUZZness (Quiz).

Scholarships

INSPIRE Scholarship

Workshops & Camps

2017 SPIM HRI, Allahabad

Audited lectures of SPIM, 2017 held at HRI, Allahabad

March '17 Mathematica NISER, Jatni

Attended two days workshop on Mathematica held at NISER, Bhubaneswar.

Activities

Currently working on English Translation of Atharva Veda (written in Vedic Sanskrit).

Currently working on a survey paper for face detection algorithms.

Worked on a research paper on using quaternion algebra in multimodal fusion model for hate speech classification.

Presented the paper "Exploring Deep Multimodal Fusion of Text and Photo for Hate Speech Classification" by Yang et al. at NISER, Bhubaneswar.

Presented the paper "Exploring Deep Multimodal Fusion of Text and Photo for Hate Speech Classification" by Yang et al. at NISER, Bhubaneswar.

Gave a talk on 'Some results on q-series and polynomials and series of Bloch-Polya Type' at HRI, Allahabad.

Part of organising committee of mathematics dept. for Open Day event (2019) held at NISER, Bhubaneswar.

Presented Tower of Hanoi for high school students in Open Day event (2018) held at NISER, Bhubaneswar.

Volunteered for Open Day event (2017) at NISER, Bhubaneswar.

Designed a game named "Pet Parasite War" explaining biological concept for BIO-LUDO held at NISER, Bhubaneswar.

Analysed the winning strategy for the game "dots and boxes".

Analysed the revenue receipts of Chattisgarh for years 2005-2016 as economics project work

Hobbies & Games

Table Tennis

DOTA 2 & Valorant

Sketching