

Nalin KUMAR

Final Year Int. MSc | Aspiring ML Researcher

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[Personal Webpage](#)

EDUCATION

2016 - 2021	National Institute of Science Education and Research Integrated MSc Major Mathematics Minor Computer Science	Bhubaneswar, India
2014 - 2016	DAV Public School All India Senior School Certificate Examination(2016) by CBSE 92.3%	Patna, India

SKILLS

Programming Language	Python R C HTML \LaTeX
Tools & Softwares	MATLAB Mathematica MS Visual Studio Code Netbeans Streamlit RStudio
APIs & Libraries	Tensorflow Keras PyTorch Numpy Scikit-learn Pandas OpenCV
OS	Windows (XP, Vista, 7, 8, 10) Linux (Ubuntu 18.0.4 LTS, Ubuntu 19.0.4 Mate, Ubuntu 20.04.1 LTS, CentOS)
Machine Learning	Machine Learning Algorithms (Linear & Non-Linear Regression, Logistic Regression, KNN, Decision Tree, Random Forest, K-mean clustering) Deep Learning (RNN, LSTM, Attention, Transformer, CNN) NLP(Word Embeddings, Sentiment Analysis, Language Translation) Computer Vision (Object Classification & Recognition, Object Detection)
Statistics	Hypothesis Testing Parametric Inference Bayesian Inference

SCHOLARSHIPS

2016-21 INSPIRE Scholarship| DST, India

WORK & EXPERIENCE

Oct 2020 Aug 2020	Summer Internship TATA STEEL Worked under Mr. Sanjoy Biswas, Head of Advanced Analytics, Kalinganagar and Mr. Saibal Nandi, Head Analytics Marketing and Sales. <ul style="list-style-type: none">Worked on detection and counting of steel reinforcement bars using deep learning.Worked on Dealer names matching (Entity Matching) using Machine Learning, which increased their sales further.Worked on Document Verification for FAMD Exports, TATA Steels, using text analytics and its UI development (using Streamlit). The project is identified under Shikhar Initiative.	India
Even Sem 2020	Semester Project NISER Semester Project under Dr. Subhankar Mishra in Computer vision. <ul style="list-style-type: none">Emotion detection of Tom & Jerry.COVID-19 Face-mask Detection.Worked on survey paper in existing face detection algorithms.	Bhubaneswar, India
Dec 2020	Winter Internship JNU 2 weeks winter internship under Dr. Narinder Singh Sahni on Gaussian process.	New Delhi, India

Odd Sem 2019	Semester Project NISER Semester Project under Dr. Subhankar Mishra on Deep Learning. <ul style="list-style-type: none"> > Worked on the paper on novel architecture QUARC, Quaternion multimodal fusion for hate speech classification. > IMDB Movie review classification using Deep Learning. > Digit Recognition using Deep Learning. 	Bhubaneswar, India
May 2019 Jul 2019	Summer Internship JNU Summer internship under Dr. Narinder Singh Sahni on Regression Analysis.	New Delhi, India
Jun 2018	Summer Internship IIT HYDERABAD Summer internship under Dr. Narasimha on Introduction to Cryptography.	India
Jul 2017 May 2017	Summer Internship HRI Summer internship under Prof. Kalyan Chakraborty on Group Theory.	Allahabad, India

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 multi-modal fusion model for hate speech classification (QUARC).
- > 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 ANTS talk series, 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 BIOLUDO 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

CLUBS & LABS

Dr. Subhankar Mishra's Lab (SMLAB)

Member

Mathematics Club

Member

LANGUAGE

- > English
- > Hindi
- > Magadhi

HOBBIES & GAMES

- > DOTA 2
- > Valorant
- > Table Tennis
- > Sketching