

Nalin KUMAR

First Year MS | Aspiring NLP Researcher

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EDUCATION

2021 - 2023	Charles University Master's in Computer Science - Language Technologies and Computational Linguistics	Prague, Czech Republic
2016 - 2021	National Institute of Science Education and Research Integrated MSc (7.41/10) Thesis Advisor: Dr. Subhankar Mishra Major Mathematics Minor Computer Science	Bhubaneswar, India

SKILLS

Programming Languages	Python R HTML \LaTeX
Tools and Softwares	MATLAB Mathematica MS Visual Studio Code Streamlit RStudio
APIs & Libraries	Tensorflow PyTorch Numpy Scikit-learn Pandas OpenCV SpaCy NLTK
Machine Learning	Machine Learning Algorithms Deep Learning NLP (Word Embeddings, Sentiment Classification, NMT, NLU, Dialogue Systems) Computer Vision (Object Classification, Object Detection & Recognition)
Statistics	Hypothesis Testing Parametric Inference Bayesian Inference

SCHOLARSHIPS

2021-23	Computational Linguistics Scholarship (CLS 2021) CUNI, Czech Republic
2016-21	INSPIRE Scholarship DST, India

PUBLICATION(S)

2021	QUARC: Quaternion Multi-Modal Fusion Architecture For Hate Speech Classification [Link] Deepak Kumar*, Nalin Kumar*, Subhankar Mishra 2021 IEEE International Conference on Big Data and Smart Computing (BigComp) *equal contribution
2021	NLP@NISER: Classification of COVID19 tweets containing symptoms [Link] Deepak Kumar*, Nalin Kumar*, Subhankar Mishra Accepted as a shared task system description at 6 th SMM4H, NAACL 2021 *equal contribution

WORK & EXPERIENCE

Odd Sem 2021	Semester Project NISER Semester Project under Dr. Subhankar Mishra in Neural Machine Translation (NMT). ➤ Studied current works and worked on many-to-one NMT systems for low-resourced languages.	Bhubaneswar, India
Even Sem 2020	Semester Project NISER Semester Project under Dr. Subhankar Mishra in Neural Machine Translation (NMT) for low-resource languages. ➤ Worked on applicability of bilingual dictionary in NMT in extremely low-resource setting.	Bhubaneswar, India

Odd Sem 2020	Semester Project NISER Semester Project under Dr. Subhankar Mishra in Neural Machine Translation (NMT). <ul style="list-style-type: none"> ➤ NMT of Atharvaveda (one of the Vedic scriptures of Hinduism). 	Bhubaneswar, India
Oct 2020 Aug 2020	Data Science Intern 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. ➤ Worked on Document Verification for FAMD Exports, TATA Steels, using text analytics and its UI development (using Streamlit) which is further deployed on GCP so that the app is accessible to the users remotely in COVID times. The project is identified under Shikhar Initiative and is estimated to save approx. INR 1 Cr. 	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 Research Intern 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 multi-modal fusion for hate speech classification. ➤ IMDB Movie review classification using Deep Learning. ➤ Digit Recognition using Deep Learning. 	Bhubaneswar, India
May 2019 Jul 2019	Summer Research Intern JNU Summer research internship under Dr. Narinder Singh Sahni on Regression Analysis. <ul style="list-style-type: none"> ➤ Parametric Regression models ➤ Explored different simpler linear and non-linear parametric models arising from the five-point non-linear model used by the vendors to fit the concentration-absorbance curve of HbA1c(used in measurement of average sugar levels over a period of 3 months). 	New Delhi, India
Jun 2018	Summer Research Intern IIT HYDERABAD Summer internship under Dr. Narasimha on Introduction to Cryptography.	India
Jul 2017 May 2017	Summer Research Intern HARISH CHANDRA RESEARCH INSTITUTE (HRI) Summer internship under Prof. Kalyan Chakraborty on Group Theory.	Allahabad, India

WORKSHOPS & PROGRAMMES

2020	SciPy India 2020 REMOTE Conducted a 2 hour workshop with one of my batch-mates Deepak Kumar on "Object counting in an image via Object Detection and Marking"	Bhubaneswar, India
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