

Rajat Kumar

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Summary

Interested in publishing reproducible research which may benefit the society and the research community.

Find me at <https://rajat-kumar.netlify.app/>

Experience



Research Associate II

Philips

Oct 2022 - Present (6 months)

- Explore and develop a variety of Artificial Intelligence (AI) algorithms for health care applications
- Interprets and analyses data using exploratory mathematical and statistical methods to identify trends, patterns, and insights from data
- Build Natural Language Processing applications by using features developed by transformation of natural language data
- Adopt powerful text representations for the transformation of natural language into effective features
- Identify and implement the tools and algorithms appropriate for Natural language processing assignments
- Analyze the unstructured complex database to extract relevant meaningful information for further insights.
- Collaborate with research engineers at other R&D locations to translate algorithms into commercially viable products and services.
- Building models and putting your work in a production environment
- Communicate and present various proposals, concepts, and results to collaborators and key stakeholders/customers



Researcher, Deep Learning and AI at TCS Research

Tata Consultancy Services

Sep 2020 - Sep 2022 (2 years 1 month)

A. Creation of R&I related assets: Development of research prototypes, tools or products as applicable, as well as applying for patents and communicating research publications, either individually or as part of a larger team.

B. Research Execution: 1. Participating in applied research work, and communicating the same via papers targetted at top-tier venues, travelling and presenting the same at such conferences. 2. Contributes to the designs and implementation proof of concepts (PoCs) & prototypes based on research.

C. Continous Learning: 1. Participates in conferences and seminars (national/international) in the field of one's own expertise & meetings associated with research.

D. Personal Development: Learning what it means to do cutting-edge applied research that is relevant an applicable in practice, as well as putting the same into practice via PoCs and co-innovation exercises with customers where applicable.



Teaching Assistant

Dhirubhai Ambani Institute of Information and Communication Technology

Aug 2018 - Aug 2020 (2 years 1 month)



Summer Research Intern

Indian Institute of Technology Gandhinagar

May 2019 - Jul 2019 (3 months)

Our research paper got accepted under the guidance of Dr. Nipun Batra

"Towards reproducible state-of-the-art energy disaggregation".

Conference: ACM International Conference (BuildSys), Columbia University, New York, USA



Summer Research Intern

Raman Classes

May 2017 - Jul 2017 (3 months)

Our conference paper got accepted in IEEE conference under the guidance of Dr. Ankush Mittal (Ex-Associate Professor, IIT Roorkee)

"Image based Indian Monument Recognition using Convolutud Neural Networks".

International Conference on Big Data, IoT and Data Science (BID), VIT, Pune, India

Education



Dhirubhai Ambani Institute of Information and Communication Technology

M. Tech, Machine Intelligence

2018 - 2020

Licenses & Certifications



FUNDAMENTALS OF DEEP LEARNING FOR COMPUTER VISION



Flipkart Grid Challenge (Level 1) - Flipkart



ACM Certificate of participation - ACM, Association for Computing Machinery



SEO Bootcamp - IEEE Computer Society



Summer Research Internship - Indian Institute of Technology Gandhinagar



Summer Research Intern - RWX TECHNOLOGIES & SOLUTIONS PRIVATE LIMITED



Gold Medal - Lord Mahavira School - India



Certificate of Excellence in Reviewing - Asian Journal of Probability and Statistics
(ISSN: 2582-0230)
63898



Award: Take Ownership to Deliver Fast - Philips



Using Azure DevOps for Agile Backlog - Philips



R&D Data Scientist Functional Onboarding Journey - Philips
Philips University



Demystifying AI/ML/DL - Amazon Web Services (AWS)



Machine Learning Essentials for Business and Technical Decision Makers -
Amazon Web Services (AWS)



Amazon SageMaker - Amazon Web Services (AWS)

Skills

Azure DevOps • Microsoft Power BI • AWS SageMaker • Artificial Intelligence (AI) • Research and Development (R&D) • TensorFlow • Natural Language Processing (NLP) • Deep Learning • PyTorch • C (Programming Language)