


Anand Kumar Rai

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Education

PhD in Computer Science and Engineering	Aug 2022-Present
<i>Indian Institute of Technology, Kharagpur, India (CGPA: 8.1/10)</i>	
M.Tech. in Data Science	2018-21
<i>Indian Institute of Technology, Hyderabad, India (CGPA: 8.94/10)</i>	
B.Tech in. Computer Science and Engineering	2008-12
<i>Indian Institute of Information Technology, Jabalpur, India (CGPA: 9.1/10)</i>	
Intermediate [CBSE Board]	2006-08
<i>Central Hindu Boys School, BHU, Varanasi, India (Marks: 89.6%)</i>	
Matriculation [CBSE Board]	2005-06
<i>Crescent Convent School, Dildarnagar, Ghazipur, India (Marks: 92.4%)</i>	

Interests

Natural Language Processing, Data Mining, Fairness in AI/ML Systems

Publications

[A Deep Dive into the Disparity of Word Error Rates Across Thousands of NPTEL MOOC Videos](#)

Anand Kumar Rai, Siddharth D Jaiswal, Animesh Mukherjee

The 15th International AAI Conference on Web and Social Media (ICWSM, 2024)

[DENOASR: Debiasing ASRs through Selective Denoising](#)

Anand Kumar Rai, Siddharth D Jaiswal, Shubham Prakash, Bendi Pragnya Sree, and A. Mukherjee

The 18th International Conference on Knowledge Graphs (ICKG, 2024)

Professional Experience

Joint Plant Committee (JPC), Ministry of Steel, Govt. of India	Kolkata
<i>Deputy Manager</i>	<i>Feb 2015 - Current</i>
<ul style="list-style-type: none">Development & Maintenance of Data Entry Software's and Analytical Reports on Indian Iron & Steel DatabaseAreas of work: Business Intelligence, Web Development	
AmadaSoft India Pvt Ltd	Chennai
<i>Software Developer</i>	<i>Jan 2014- Jan 2015</i>
<ul style="list-style-type: none">Development of fast and secure API for CAD and CAM File ManagementAreas of work: Encryption, Backend Development using C++	

Amada Co., Japan**Tokyo***Software Developer**Aug 2012 – Sep 2013*

- Development of desktop application for File management in an Embedded System
- Areas of work: Desktop App Development

S & P Capital IQ**Hyderabad***Intern**May 2011 –Nov 2011*

- Development of workflow tracker tool for managers for evaluating their team performance
- Areas of work: Desktop App Development , OLAP Cube

Academic Projects

TEMPSQL: Template based Text-to-SQL generation on single source database [Master's Thesis]*Advisor : Prof. Maunendra S Desarkar**Jan 2021 – Jun 2021*

- Development & Deployment of Attention-Based Seq2Seq model trained on augmented Text-SQL pairs
- Research Areas: Attention Mechanism, Seq2Seq Model , Language Modelling

RELALG: Design of Relational Algebra Dialect using MLIR compiler ecosystem*Advisor : Prof. Ramakrishna Upadrashta**Aug 2020 – Dec 2020*

- Analysis of MLIR compiler framework and design of lowering Relational Algebra operations to low-level instructions
- Research Areas: LLVM , Compiler Development

CoVID related Hate Speech Detection on Tweet dataset*Advisor : Prof. Maunendra S Desarkar & Prof Srijith**Jan 2020 –Jun 2020*

- Development of LSTM based model is trained on the manually annotated CoVID related dataset. The developed module can classify the tweet as hate/non-hate , categorize hate category and identify hate target.
- Research Areas: LSTM , Sentiment Analysis

e-Public Distribution Monitoring System*Advisor : Prof. Atul Gupta**Jan 2011 – April 2011*

- Development of Object-Oriented based e-PDMS software system with an aim to bring transparency in Public Distribution Scheme operated by State Govts.
- Research Areas: OOP Practices, UML Modelling, Web development

Scholastic Achievements

- District Topper in CBSE Board Matriculation Examination in the year 2006
- Rank among top 1% in about 10,00,000 students appeared for AIEEE-2008
- Awarded for Academic Excellence by MHRD in two consecutive academic sessions,2008-09 and 2009-10
- Qualified GATE in 2011 with AIR under 1300
- Qualified UGC-NET in Computer Science with Junior Research Fellowship in 2022

Positions of Responsibility

- Asst. Coordinator of Counselling Committee at IIITDM Jabalpur
- Coordinator of Literary Club at IIITDM Jabalpur
- Volunteered Aksharmaala Program meant for tutoring students from rural govt. schools
- Worked as Secretary of Canteen at Joint Plant Committee, Kolkata

The above-mentioned information is best of my knowledge.

Date: 12th Nov 2024

Anand Kumar Rai