


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

Speech Technologies primarily ASR, Fairness in Speech Recognition

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 AAAI 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)

[ASR-FAIRBENCH: Measuring and Benchmarking Equity Across Speech Recognition Systems](#)

Anand Kumar Rai, Satyam Rahangdale, Utkarsh Anand, and A. Mukherjee

The 26th InterSpeech Conference (2025)

Professional Experience

Joint Plant Committee (JPC), Ministry of Steel, Govt. of India

New Delhi

Deputy Manager

Feb 2015 - Current

- Development , Maintenance & Deployment of Iron & Steel Dashboard , Analytical Reports and APIs for dissemination of reports
- Developed an interface for querying Iron & Steel database using natural language
- Areas of work: Business Intelligence, Web Development, Natural language Processing

AmadaSoft India Pvt Ltd**Chennai***Software Developer**Jan 2014- Jan 2015*

- Development of fast and secure API for CAD and CAM File Management
- Areas 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
- Reviewer of CSCW 2024, IEEE INDICON 2024, IEEE INDISCON 2025

The above-mentioned information is best of my knowledge.

Date: 27th Aug 2025

Anand Kumar Rai