ALLAMRAJU Aparajitha

PhD Candidate · LTRC, IIIT Hyderabad, India
aparajitha.allamraju@research.iiit.ac.in · allamrajuaparajitha.com

SUMMARY

5th year PhD fellow, working in NLP - Document Understanding; has a decade of industry experience; with a passion for Mathematics and Languages.
Research Interests - Document Processing & Representation, Retrieval, Natural Language Generation, Diffusion LM

EDUCATION

IIIT Hyderabad, *India* 2022 - Present
PhD Computational Linguistics *advised by Dr. Manish Shrivastava*

University of Southern California, *USA* 2010 - 2012
MS Computer Science

University of Mumbai, *India* 2006 - 2010
BE Information Technology

RESEARCH EXPERIENCE

PhD Fellow, IIIT August 2022 - Present

- Inter and Intra Document Representation, Understanding and Reasoning
- Citation Networks - Judicial and Scientific
- Application of LLMs in Text-Attributed Graphs
- Retrieval Augmented Generation
- Semantic Segmentation
- Led teams for industry-funded projects on Table Question Answering and Automated Document Styling
- Worked on Cross-Lingual Question Answering and Summarization

TEACHING EXPERIENCE

Co-Instructor, Advanced NLP Monsoon 2026, IIIT

Head TA, Advanced NLP Monsoon 2025; Introduction to NLP Spring 2026, IIIT

- Support with course creation, content preparation and manage TAs
- Lectures on Introduction to NLP, Transformers, Parallel Decoding, Mixture of Experts

Guest Lecturer, Advanced NLP, *Monsoon 2024*; Introduction to NLP, *Spring 2025*, IIIT

- Lectures on Introduction to NLP, Transformers, and Distillation
- Lectures on Neural Language Modeling, RNNs and LSTM for NLP

Course Instructor, IIIT

- Computer & Scripting I - *Monsoon 2023, 2024*
- Computer & Scripting II - *Spring 2024*

Project Mentor, TalentSprint
PG Certification in AI/ML 2024-25

- Mentor for projects on Bias Detection and Mitigation in LLMs
- Co-mentor for projects on Explainability and Interpretability of LLMs

International Advanced Summer School on Natural Language Processing, IIIT
IASNLP 2024

- Preschool speaker for Introduction to ML, Language Modeling, and Transformers
- Student Organizer and Project Mentor

CIE Creating Ventures LLMs for Startups 2024, IIIT
CV Labs LLM 2024
Primary Teaching Assistant, handled sessions and created practice notebooks for

- Retrieval Augmented Generation (RAG), Graph RAG, Multimodal RAG
- Finetuning and Evaluating Models
- Vision Language Models
- Knowledge Distillation

PRESENTATIONS & PUBLICATIONS

- Indian Judgement Citation Network and Precedent Prediction *19th International Conference on Artificial Intelligence and Law 2023 (Doctoral Consortium)*
- Citation Retrieval and Generation at low granularity *(Under Review)*
- Domain Specific Semantic Segmentation *(Under Review)*

PROFESSIONAL EXPERIENCE

Independent Consultant May 2019 - June 2022
Advised and mentored short term projects with startups and small to mid size companies in

- Deep Learning and Machine Learning
- Software Architecture and Design
- Natural Language Processing
- iOS Application Design and Development

System Software Engineer April 2013 - July 2018
Apple *Cupertino, CA, USA*

- Suggested and led machine learning efforts
- Led iOS projects and data analytics teams
- Developed scalable web and iOS applications
- Mentored junior engineers and interns

SQA Engineer July 2012 - March 2013
Symantec *Culver City, CA, USA*

MATLAB Web GUI Intern January 2012 - July 2012
Mathworks *Natick, MA, USA*

MISCELLANEOUS

- **Managing Trustee**, Allamraju Charitable Trust January 2022 - Present
- Program Chair, 1st ResearchFest; Program Committee, 2nd ResearchFest, IIIT
- Judge at several hackathons

LANGUAGES

Programming Languages	Python, Swift, R, SQL, Java, C
Bilingual or Native Proficiency	English, Telugu, Hindi
Limited Proficiency	Tamil, Marathi, Sanskrit, Spanish, Japanese