ALLAMRAJU Aparajitha

PhD Candidate · LTRC, IIIT Hyderabad, India

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SUMMARY

Current 3rd year PhD fellow, working in NLP - Document Intelligence; has a decade of industry experience; with a passion for Mathematics and Languages.

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

- 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

Course Instructor, IIIT

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

Advanced NLP, Monsoon 2024, IIIT

- Lectures on Introduction to NLP, Transformers, and Distillation

Introduction to NLP, Spring 2025, IIIT

- Lectures on Neural Language Modeling, RNNs and LSTM for NLP

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 2024, 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)*
- Case Precedent Retrieval and Generation *(Under Review)*
- Semantic Segmentation for QA *(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*

- Developed applications to support quality assurance of Norton products

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

- Responsible for end-to-end design, development and testing for some components for MATLAB on Web
- Mapped MATLAB functionalities from desktop client to the rich internet client

MISCELLANEOUS

- **Managing Trustee**, [Allamraju Charitable Trust](#)   January 2022 - Present
- Program Chair, [IIIT ResearchFest 2025](#)
- 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