800 W Campbell Rd
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# Saichethan M. Reddy

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## Education

| Dallas, TX | University of Texas at Dallas | August 2021 – May 2023 |
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- Master of Science in Computer Science, Intelligent Systems Track.
- Graduate Coursework: Artificial Intelligence; Machine Learning; Databases; Algorithms;

| Bihar | IIIT Bhagalpur | August 2017 – May 2021 |
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- Bachelor's of Technology in Computer Science and Engineering.
- Undergraduate Coursework: Artificial Intelligence; Machine Learning; Operating Systems; Software Engineering; Databases; Computer Architecture; Algorithms;

## Employment

| Research Assistant | BITS Pilani, Goa Campus | January 2021 – Present |
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- Developed an attention-based ranking scheme for selecting important and informative sentences
- Proposed an additional relevance-based algorithm to improve the diversity

| Research Assistant | AI-ML-NLP Lab | March 2020 – August 2020 |
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- Designed systems for the CL-SciSumm, LongSumm, LaySumm tasks of SDP workshop at **EMNLP**
- Achieved the best performance on community summaries on Task 2 of CL-SciSumm
- Devised a CNN based supervised system, which obtained 3rd position for LongSumm task
- Attained the highest recall of all submitted for the LaySumm

| Lead | Google Developer Student Club | August 2019 – May 2020 |
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- Club founder, started with 2 others, now consists of more than 150 active members.
- Built website of the club and optimized code which made 75% faster rendering and performance of webpages.
- Our team made it to top 20 teams from all over India in SV.co 2018 challenge

| Summer Research Intern | IIT Patna | May 2019 – August 2019 |
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- Worked on developing a Multi-Modal Named Entity Recognition (NER)system
- Proposed a novel attention mechanism for creating better shared space of images and words

## Technical Experience

### Projects

- **Sarcasm Detection** (2020): Investigated sarcasm detection in different semantic spaces, on different publicly available datasets like The Onion and Reddit.
- **Clinical Trial Summarization** (2020) Implemented a Novel Multi objective optimization based Extractive summarization on clinical trial dataset.
- **Student Leave management System** (2019) Created a portal for online leave management system for students as part of software engineering coursework

## Additional Experiences and Awards

- **Fellowship:** Received the Jonsson School $1,000 Graduate Study Scholarship
- **Workshop Chair:** Coordinated the SDPRA workshop at 25th PAKDD 2021
- **Travel Grant:** Recieved an invitation and travel grant to attend the TensorFlow Dev Summit
- **Instructor:** Teaching Assitant(TA) for machine learning and web development sessions
- **Peer review:** Served as a peer reviewer for #WNUT 2020, #SMM4H 2020 workshops
- **Volunteer Service:** Volunteered at ACL 2020 and Sponsorship Liaison at EMNLP 2020

## Languages and Technologies

- C++/C; Python; SQL; Keras; Tensorflow; Sklearn; Python; JavaScript;
- GitHub; Data Analysis; Web Development; Structured Data; AMP;

## Publications

- **Saichethan Miriyala Reddy**, Swati Agarwal, and Sriparna Saha. "Generating Diverse Extended Summaries of Scientific Articles" In 2021 International Joint Conference on Neural Networks (IJCNN), 2021.
- Suman, C., **Saichethan Miriyala Reddy**, Sriparna Saha and P. Bhattacharyya. "Why Pay More? A Simple and Efficient Named Entity Recognition System for Tweets." Expert Systems With Applications (2020).
- **Reddy, Saichethan Miriyala** and Saisree Miriyala. "Exploring Multi Feature Optimization for Summarizing Clinical Trial Descriptions." 2020 IEEE Sixth International Conference on Multimedia Big Data (BigMM) (2020): 341-345.
- **Reddy, Saichethan**; Tyagi, Kanishk ; Anand Tripathi, Abhay; Pawar Ambika; Kotecha Ketan, "Tweets Reporting Abuse Classification: TRACT" Congress on Intelligent Systems (CIS) (2020)

## Workshops

- **Reddy, Saichethan**, and Naveen Saini. "Overview and insights from scope detection of the peer review articles shared tasks 2021." In Trends and Applications in Knowledge Discovery and Data Mining: PAKDD 2021 Workshops, pp. 73-78. Springer International Publishing, 2021.
- **Reddy, Saichethan**, Naveen Saini, Sriparna Saha, and Pushpak Bhattacharyya. "IIITBH-IITP@ CL-SciSumm20, CL-LaySumm20, LongSumm20." In Proceedings of the First Workshop on Scholarly Document Processing, pp. 242-250. 2020.
- **Reddy, Saichethan**, and Pradeep Biswal. "IIITBH at WNUT-2020 Task 2: Exploiting the best of both worlds." In Proceedings of the Sixth Workshop on Noisy User-generated Text (W-NUT 2020), pp. 342-346. 2020.
- **Reddy, Saichethan** "Detecting Tweets Reporting Birth Defect Pregnancy Outcome using Two-View CNN RNN based Architecture" In Proceedings of the Fifth Workshop on Social Media Mining for Health Applications (SMM4H 2020)
- **Reddy, Saichethan**, Suman, Chanchal, Sriparna Saha, and Pushpak Bhattacharyya. "A GRU-based Fake News Prediction System: Working Notes for UrduFake-FIRE 2020" In FIRE (Working Notes)