

Akhilesh Kakolu Ramarao

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Experience

Employment

- **Heinrich-Heine-Universität Düsseldorf** **Germany**
Wissenschaftlicher Mitarbeiter, Department of English Language and Linguistics 2021-Present
- **CivicDataLab** **Remote**
NLP Researcher 2019 - 2020
- **skit.ai** **India**
NLP Engineer, Bengaluru 2017 - 2019
- **Ramco Systems** **India**
Software Engineer, Bengaluru/Chennai 2017

Language Revitalization

- **Idu Mishmi Cultural and Literary Society (IMCLS)** **India**
Chief Coordinator, Arunachal Pradesh 2020

Consulting

- **XRI Institute** **Remote**
Consultant, United States of America 2021
- **Vrook** **India**
Tech Consultant 2020 - 2021

Internships

- **Sense Infinity Technologies** **India**
Full Stack Developer Intern 2016
- **Maruti Suzuki** **India**
Industry Trainee 2014

Volunteering

- **Lohit Youth Library Network** **India**
Volunteer, Arunachal Pradesh 2020 - Present

Education

Academic Qualifications.....

- **Dayanand Sagar College of Engineering** **Bengaluru, India**
Undergraduate, Bachelor of Automobile Engineering *2012 - 2016*

Teaching

- **Accent unplugged: Evaluating Voice assistants** [\[Link\]](#) Winter, 2023
- **Synthesizing speech** [\[Link\]](#) Summer, 2023
- **Language technology for Linguists with Internet of Things (IoT)** [\[Link\]](#) Winter, 2022
- **LaTeX for Linguists** [\[Link\]](#) Winter, 2022
- **Towards a career in language technology: linguistic annotation** [\[Link\]](#) Summer, 2022
- **Basic Skills in Digital Humanities** [\[Link\]](#) Winter, 2021

Skills and Projects

Technical Skills.....

- **Recent experience:** Python, Bash, \LaTeX , Scheme
- **Past experience:** Haskell, Dart, JavaScript (AngularJS), **Frameworks:** Keras, Tensorflow, Flutter
- **Platforms:** Arch linux, Ubuntu

Personal Projects.....

- My personal technical projects and open source contributions can be found [here](#).
- My non-technical project in Material Science was to **Analyse Corrosion and Wear behaviour of developed Fly-ash based Thermal Spray coating**.

Grants/Awards

- **First prize** at the **HHU Legal Hackathon 2022**. Team: Akhilesh Kakolu Ramarao, Phaedon Paschalis and Diana Schill.
- **First prize** at the **HeiCAD Lightning Talks 2022**.
- Hardware Grant. 20 \times NVIDIA® Jetson™ Nano Developer Kits. NVIDIA Academic Hardware Grant, "FOSStering Digital Humanities through Accent Diversity & Conversational Devices". Co-applicant: Kevin Tang
- Education Grant. €9,424. e-Learning support fund, Heinrich-HeineUniversity Düsseldorf. "Interactive web-based review units for phonetics and phonology". Co-applicant: Christopher Geissler and Kevin Tang

Publications

- Chongnam Jeong, Dominic Schmitz, **Akhilesh Kakolu Ramarao**, Anna Stein, and Kevin Tang. 2023. Linear discriminative learning: a competitive non-neural baseline for morphological inflection. In *Proceedings of the 20th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, pages 138–150, Toronto, Canada. Association for Computational Linguistics. <https://aclanthology.org/2023.sigmorphon-1.16.pdf>
- **Akhilesh Kakolu Ramarao**, Yulia Zinova, Kevin Tang & Ruben van de Vijver. 2022. HeiMorph at SIGMORPHON 2022 shared task on morphological acquisition trajectories. In *Proceedings of the 19th SIGMORPHON Workshop on Computational Research in Phonetics, Phonology, and Morphology*, 236–239. Seattle, Washington: Association for Computational Linguistics. <https://aclanthology.org/2022.sigmorphon-1.24>

Presentations

Talks.....

- 'From Zero to Terminal Hero' at 32nd TaCoS conference, 2023.
- **Akhilesh Kakolu Ramarao**, Kevin Tang & Dinah Baer-Henney. January, 2023. Can Neural Networks learn human-like behavior when inflecting verbs? the case of Spanish. Shortlisted presentation at the Five-Minute linguist competition, *Linguistic Society of America 97th Annual Meeting 2023*, Denver, CO, USA.
- 'Modeling irregular morphological patterns using Transformers' at HeiCAD Lightning Talks 2022.
- 'Language Revitalization: A case for Idu Mishmi' at Microsoft Research India, 2021.
- 'Language Revitalization: A case for Idu Mishmi' at Navana Tech, 2021.

Poster presentations.....

- Muschalik, J., Schmitz, D., **Kakolu Ramarao, A.** & D. Baer-Henney. Acoustic duration and typing timing – same, same... but different? Presentation at Phonetics and Phonology in Europe 2023, Nijmegen, Netherlands.
- Kevin Tang, **Akhilesh Kakolu Ramarao** & Dinah Baer-Henney. May, 2022. Modeling irregular morphological patterns with recurrent neural network: the case of the L-shaped morpheme. *13th Mediterranean Morphology Meeting*, University of the Aegean, Greece.
- **Akhilesh Kakolu Ramarao**. 2020. Analysis of POCSO cases in Uttar Pradesh. Agami.

Conference/Workshop Organiser

- Chief organizer of LibreSlam - Free and Open Source (FOSS) for everybody (<https://slam.phil.hhu.de/libreslam/>) at Heinrich-Heine-University, Germany, 2022.
- Chief organiser and a teaching member of the LY-CS101 Course. The course was primarily aimed at the beginner level Computer Science students in collaboration with National College, Bangalore, India and Merge Intern, 2020.