

Kranti CH

Pre-Doctoral Fellow

Pre-doctoral researcher, developing low-resource language tools for Telugu (Indian Regional) Language. Worked in Industry for 15 years across ML, Digital Payments, and Multimedia domains. Led the team that developed lightweight on-device neural models to enhance soft keyboard experience for Samsung Smartphones & Smartwatches.



Research Work

- Sonal Kumari, Vibhav Agarwal, Bharath C, **Kranti CH**, Harshavardhana, Sourav Ghosh, Barath Raj KR: A Lightweight On-Device Sequence Tagger using Multitask Learning, **IEEE-ICSC 2021 Conference** (doi: [10.1109/ICSC50631.2021.00007](https://doi.org/10.1109/ICSC50631.2021.00007))
- Vibhav Agarwal, Sourav Ghosh, **Kranti CH**, Bharath C, Sonal Kumari, Harshavardhana, Barath Raj KR: EmpLite: A Lightweight Sequence Labelling Model for Emphasis Annotation of Short Texts, **Joint NLP Modelling for Conversational AI at ICON-2020 Conference** (url: <https://aclanthology.org/2020.icon-workshop.3/>)



Education

May 2021 - Current	Fatima AI-Fihri Pre-Doctoral Fellow <i>A fellow of Fatima AI-Fihri Fellowship 2021</i>
June 2018- Oct 2018	Advanced Certification in AI/ML <i>IIIT – Hyderabad, Grade: Excellent</i>
Dec 2008 – Dec 2010	MS Software Systems <i>Birla Institute of Technology – Pilani, CGPA: 6.5</i>
Sept 2004 - Feb 2005	PG Diploma: Embedded Systems <i>Centre for Advanced Computing – Trivendrum, Grade: A+</i>
June 2000 – Apr 2004	B.Tech: Electronics & Communications <i>Jawaharlal Nehru Technological University – Hyderabad, Percentage: 73%</i>



Work History

June 2007 – Apr 2021	Staff Engineer <i>Samsung R&D India, Bangalore</i> <ul style="list-style-type: none">3 Patents [Content Generation, Boosting Typing Experience, Multi-lingual Suggestions] are provisionally filled and full applications are in processingDesigned and deployed new features for Samsung Soft Keyboard using NLP and Deep Learning Techniques (OTP Extraction, Real-time Emoji Suggestions, Spell Checker, On-Device training)Lead and mentored 10+ member team to manage product development, beta releases and commercial deployment for soft keyboard features.Delivered Samsung Pay UPI solution for Indian Digital Payments (One of the first UPI solutions in Indian Market) and Spain Digital Payments in collaboration with Obertur, Gemalto and La Caixa teams (Using Embedded Secure Element, One of its first)Instrumental in ISDB-T, ISDB-Tmm based Mobile TV stack development for Japan market smart phones
Mar 2005 – June 2007	Sr. Engineer <i>Tata Elxsi Ltd, Bangalore</i> <ul style="list-style-type: none">Design and Development of DVB-T Set top box middleware stackRe-designed test suite for DTV middleware stack



Contact

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Skills

- C; C++; Java; Python.
- Pytorch
- Android; Tizen; Linux; SHP.
- Product design and development



Honours and Awards

- Business contribution award for successful deployment of ISDB-Tmm stack, resulted in 2Mn USD savings
- Super Saver award for royalty saving of 1Mn USD (7\$/phone) for ISDB-T stack development
- Multiple times Employee of the month award, Perfectionist, Nipun Best Demo, TechGlanz Best Demo for the tech contributions at org level



Volunteering

- Women tech club, Samsung R&D
- Social Volunteer at COLING-2020, NAACL-2021
- Poster reviewer and Scholarship reviewer committees at Grace Hopper Conference(s)