Speech recognition in agriculture and finance for the poor in India

1 message

Prasanta Kumar Ghosh <prasantg@iisc.ac.in>   Tue, Jun 1, 2021 at 11:51 AM
To: Contact Respin <contact.respin@iisc.ac.in>

Dear Sir/Madam,

Greetings from the SPIRE Lab, Indian Institute of Science (IISc), Bangalore.

We, in the SPIRE lab, are excited to announce our new project - Speech recognition in agriculture and finance for the poor in India.
https://respin.iisc.ac.in

Funded by Bill and Melinda Gates Foundation, this project is an initiative predominantly to create resources and make them available as a digital public good in the open source domain to spur research and innovation in speech recognition in nine different Indian languages in the area of agriculture and finance. Nine Indian languages considered for this project are Hindi, Bengali, Marathi, Telugu, Bhojpuri, Kannada, Magadhi, Chhattisgarhi, and Maithili.

The outcome of this project will play an important role in enabling a technology ecosystem in India to make life-changing digital services accessible to a large population of India by democratizing the creation and use of voice technologies in interfaces in India.

Please spread this message as far and wide as possible to your colleagues/friends/students. There are a number of exciting opportunities to get associated with this project.

We are also looking for contributors for large amount of text data in various domains in the languages mentioned above (Hindi, Bengali, Marathi, Telugu, Bhojpuri, Kannada, Magadhi, Chhattisgarhi, and Maithili). Contributors are also required who can listen to audio file and verify the content of it in these languages. Please feel free to write back if you can contribute in this regard.

For more details and opportunities kindly refer to the attached flyer.

Thanks & regards

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RESPIN_Flyer.pdf
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SPIRE LAB

Speech recognition in agriculture and finance for the poor in India

Objective

To identify, collect and make speech and language data available in an open source domain to enable the creation of affordable and accurate speech to text, and natural language processing technologies in nine different Indian languages in the area of agriculture and finance.
Nine Indian languages considered for this project are Hindi, Bengali, Marathi, Telugu, Bhojpuri, Kannada, Magadhi, Chhattisgarhi, and Maithili.

छत्तीसगढ़ी
हिन्दी   मैथिली
తెలుగు
ಕನ್ನಡ   বাংলা
मराठी
मगधी   भोजपुरी

Need

A majority of the population in the country is still unable to use all the technological services due to language and literacy constraints and they still communicates only through spoken language and dialects.
The development of speech-based technologies by organizations are constrained by the availability of data (speech samples) in many Indian languages.

Impact

The output of this project will allow local innovation in emerging markets to develop products and services serving the illiterate Indians and rural poor populations in their own medium of engagement with technology use cases such as digital financial services, robo-advisory, informed consent, grievance redressal, product suitability, customer service delivery, strong authentication, information exchange, crowd-sourced digital work, agricultural advisory, farmer app support, support for agricultural finance and crop insurance services etc.

Opportunities

Are you excited to carry out research and development in the recognition of speech in Indian languages in the area of agriculture and finance?

Positions are open. For more details scan the QR code below.