भारतीय सूचना प्रौद्योगिकी संस्थान धारवाड़

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DHARWAD

[Institute of National Importance by an Act of Parliament]

12th August 2022

<u>To Whom It May Concern</u>

This is to certify Mr. S Venkata Ramana (19BCS096) student of B.Tech in Computer Science and Engineering at the Indian Institute of Information Technology Dharwad has done an internship in 'IMPROVEMENT OF AUTOMATIC SPEECH RECOGNITION (HINDI) FOR HUMANOID' under my supervision from July 2021 to May 2022.

The internship includes Automatic Speech Recognition (ASR) in Hindi language for Humanoid. The speech recognition system uses the wav2vec model from Facebook which is pre-trained 10k hours of unlabelled data of 23 different Indic languages and fine-tuned in 40 hrs of labeled data from the IITM ASR challenge dataset and the model achieved 8.56 WER with language model and 14.33 WER without using a language model.

Further, the student has been exposed to different challenging tasks, found himself punctual, and completed the project on time. We wish him all the best in his future endeavors.

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