

**Establishing Speech and Natural Language Processing Group &
Inaugurating Speech Technology Laboratory
@ IIIT Dharwad by Prof. B. Yegnanarayana**

IIIT Dharwad started focused and accelerated efforts in research and innovation charter by setting up new research groups in frontier areas related to IT, AI and DS areas. In this direction, a group of faculty members from different departments have come together to establish a Speech and Natural Language Processing (SNLP) Group. There are seven faculty members and about 25 research scholars working in this group. Under this group, there will be different research laboratories and start up companies in the SNLP area. The mark of the beginning of this group was done by Prof B Yegnanarayana, an internationally acclaimed researcher in the area. He also inaugurated the speech technology laboratory. With this, a new chapter has been created where in the years to come the SNLP group will create a name and fame for IIIT Dharwad at the national and international levels.

Vision of SNLP Group:

“Nationally and Internationally acclaimed research and innovation group in speech and natural language processing areas”

Mission of SNL Group:

- Securing funded projects in applied areas of SNLP
- Research and innovation in frontier areas of SNLP
- Publishing research articles in reputed venues
- Patents in futuristic SNLP ideas
- Industrial consultancy to SNLP companies
- Startups in SNLP by faculty, scholars and interested entrepreneurs



Faculty of Speech and Natural Language Processing Group



Chaitanya Suresh &
A.K. Aravindhan
Associate Professors
Speech and Natural Language Processing

Area of Interest :

- Indian Knowledge Systems
- Computer Vision
- Coding Theory
- Machine Learning



Shreyas S. T.
Asst. Prof. (Associate)
Speech and Natural Language Processing

Area of Interest :

- Speech/Audio Processing
- Machine Learning



Balakrishnan Ganesha
Asst. Prof. (Associate)
Speech and Natural Language Processing

Area of Interest :

- Natural Language Processing
- Artificial Intelligence



Naveen K.S.
Asst. Prof. (Associate)
Speech and Natural Language Processing

Area of Interest :

- Speech/Audio Processing
- Machine Learning
- Embedded Systems



V.B. Mahadevan Praveen
Asst. Prof. (Associate)
Speech and Natural Language Processing

Area of Interest :

- Signal Processing
- Speech Processing
- Deep Learning
- Artificial Intelligence



Raghav Venkatesh
Asst. Prof. (Associate)
Speech and Natural Language Processing

Area of Interest :

- Speech Technology
- Signal Processing
- Machine Learning



Naveen K. Venkatesh
Asst. Prof. (Associate)
Speech and Natural Language Processing

Area of Interest :

- Natural Language Processing
- Applied Machine Learning
- Applied Deep Learning
- Information Retrieval





ಭಾರತೀಯ ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ಸಂಸ್ಥೆ, ಧಾರವಾಡ
भारतीय सूचना प्रौद्योगिकी संस्थान धारवड़
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DHARWAD
(Institute of National Importance by an Act of Parliament)

R & D Projects

Project Title: "Speech Enhancement and Automatic Speech Recognition"

Funding Agency: Bharath Electronics Limited - Central Research Laboratory (BELCRL) through IIT Dharwad

Funds Received: Rs. 10 Lakhs

Principal Investigator: Dr. Deepak K T

Collaborations: IIT Dharwad and IIT Guwahati

Status: Completed

Project Title: "Autonomous Navigating Humanoid"

Funding Agency: Technology Innovation Hub on Autonomous Navigation and Data Acquisition Systems (TIHAN) at IIT Hyderabad

Funds Sanctioned: Rs. 70 Lakhs

Chief Investigator: Dr. Deepak K T

Collaborations: Dr. Pavan Kumar (Co-Investigator), Dr. Rajendra Hegadi (Co-PI), Dr. Chinmayananda (Co-PI), and Dr. Ramesh Athe (Co-PI)

Status: Ongoing

Project Title: "Speech to Speech Translation for Tribal Languages using Deep Learning Framework"

Funding Agency: Ministry of Electronics and Information Technology (MeITY), Govt. of Indian

Funds Sanctioned : Rs.44.53 Lakhs

Co Principal Investigator: Dr. Deepak K T

Collaborations: IIT Dharwad, IIT Hyderabad, and IIT Bhubaneswar

Status: Ongoing

Project Title: "Speech Technologies in Indian Languages under the project titled National Language Translation Mission (NLTm): BHASHINI"

Funding Agency: Ministry of Electronics and Information Technology (MeITY), Govt. of Indian

Funds Sanctioned: Rs. 22.23 Lakhs

Co-Principal Investigator: Dr. Deepak K T

Collaborations: It is a large consortium of academic institutes and companies lead by IIT Madras

Status: Ongoing

Project Title: "Standalone Domain Specific Speech to Speech Translator for English, Hindi and Tamil Languages"

Funding Agency: SERB-DST, Govt. of India

Funds Sanctioned: Rs. 70 Lakhs

Co-Principal Investigator: Dr. Deepak K T

Collaborations: IIT Dharwad, SSNCE Chennai, and SNU Chennai

Status: Ongoing





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R & D Projects

Project Title: "Large Language Model for Legal Assistance"

Funding Agency: IIT Mandi iHub & HCI Foundation

Funds Sanctioned: 17.32 Lakhs

Principal Investigator: Dr. Sunil Saumya

Collaborations: IIT Kharagpur, IIT Dharwad, NIT Warangal and NIT Hamirpur

Status: Ongoing

Project Title: "Generative AI - Powered Interactive Support for Banking & Insurance Services in Hindi & Kannada Regional Languages"

Funding Agency: IIT Bhilai Innovation & Technology Foundation - IBITF

Funds Sanctioned: Rs. 150 Lakhs

Chief Investigator: Dr. Deepak K T

Collaborations: Vocab.AI

Status: Ongoing

Project Title: Improving communication outcomes in children with cleft palate in rural India

Funding Agency: Arizona State University

Funds Sanctioned: 80 Lakhs

Chief Investigator: Dr. Deepak K T

Collaborations: Arizona State University and IIT Dharwad

Status: Ongoing

Project Title: "Smart Humanoid in Geriatrics: Voice driven Autonomous Navigation for Geriatric Care"

Funding Agency: TIHAN IIT Hyderabad

Funds Sanctioned: Rs. 9.6 Lakhs

Chief Investigator: Dr. Prakash Pawar

Status: Ongoing

