

# 1. Prof Pushpak Bhattacharyya (*Consortium Leader and Chief Investigator- Assamese, Bodo, Manipuri, Nepali and Hindi and English*)

A) **Current Position:** Professor, Computer Science and Engineering Department, IIT Bombay

B) **Education:**

- B.Tech. IIT Kharagpur 1984
- MTech. IIT Kanpur 1986
- PhD IIT Bombay 1994

C) **Other Professional Experience:**

- Visiting Scholar MIT Cambridge USA, 1990,
- Visiting Professor Stanford University 2004,
- Professeur Invite' Universite' Joseph Fourier' summer of 2005, 2009, 2011
- Director IIT Patna, 2015-2020

D) **Areas of Interest:**

- Natural Language Processing
- Machine Learning
- Image Processing and Computer Vision

E) **Awards, Honors:**

- Member Editorial Team Journal of Natural Language Engineering Cambridge University Press (Inducted 2021).
- Abdul Kalam National Fellow (2020).
- Associate Editor (Natural Language Processing), Neurocomputing Journal, Elsevier, (inducted 2020).
- Distinguished Alumnus, IIT Kharagpur, 2018.
- ACL President, 2016.
- Fellow Indian National Academy of Engineering (elected 2015).
- Chairman AI Standardization Committee GoI.

F) **Relevant recent publications:**

Google scholar: <https://scholar.google.co.in/citations?user=vvg-pAkAAAAJ>

Citations (20th Nov, 2021)- 9814, H-index- 46

*Complete List of Publications:* <https://www.cse.iitb.ac.in/~pb/pubs-signi.html>

- Tejas Dhamecha, Rudra Murthy, Samarth Bharadwaj, Karthik Sankaranarayanan and Pushpak Bhattacharyya, *Role of Language Relatedness in Multilingual Fine-tuning of Language Models: A Case Study in Indo-Aryan Languages*, EMNLP 21, 7-11 Nov, 2021, Dominican Republic.
- Akash Banerjee, Aditya Jain, Shivam Mhaskar, Sourabh Dattatray Deoghare, Aman Sehgal, Pushpak Bhattacharya, *Neural Machine Translation in Low-Resource Setting: a Case Study in English-Marathi Pair*, MT Summit 2021.
- Shubham Dewangan, Shreya Alva, Nitish Joshi and Pushpak Bhattacharyya, *Experience of Neural Machine Translation between Indian Languages*, Machine Translation, Vol. 35, Springer, Accepted. DoI



- Nikhil Saini, Drumil Trivedi, Shreya Khare, Tejas Dhamecha, Preethi Jyothi, Samarth Bharadwa and Pushpak Bhattacharyya, *Disfluency Correction using Unsupervised and Semi-supervised Learning*, 16th
- Conference on European Chapter on Computational Linguistics (EACL21), Virtual Conference, April 16-23, 2021.
- Pushpak Bhattacharyya, *Machine Translation*, CRC Press, USA (Taylor and Francis Group), ISBN:978-1439897188, 2015.
- Anoop Kunchukuttan and Pushpak Bhattacharyya, *Machine Translation and Transliteration of Low Resource Languages*, CRC Press, 2021.

**G) Relevant and recent sponsored projects:**

- Accenture Labs Bias Detection Approx Rs 35L 2021-22.
- INAE Abdul Kalam Fellowship Project: "Shushrut- a System for Assiting Diagnostics and Reporting in Radiology using ASR and NLU" Rs 45L 2020-23.
- Ministry of Electronics and IT Bahubhashak Pilot: Speech to Speech Machine Translation for Indian Languages Approx Rs 2 Cr 2020-21.
- IBM AI Horizon Network IIT Bombay Multimodal Knowldge Based AI Approx Rs 3 Cr 2019-22.
- CDOT Multilingual Sentiment and Emotion Analysis Approx Rs 40L 2019-21.
- IMPRINT-2 (MHRD-MEITY-Honeywell) INFORMATION RETRIEVAL VIA KNOWLEDGE GRAPHS DEVELOPED FOR AIRCRAFT ACCIDENTS DATABASE AND AIRCRAFT MANUALS Approx Rs 80 Lakhs 2018.
- MEITY Hindi-English Judicial Machine Translation Approx Rs 2 Crore 2017-2019.
- MHRD-MEITY IMPRINT A platform for Crosslingual and Multilingual Event Monitoring in Indian Languages Approx Rs 4 Crore 2017-2019.
- Tata-Center A digital aid for language teaching and learning Apporx. Rs 45,00,000 2016-2018.
- Accenture Global R & D Artificial Intelligence in Question Answering, Virtual Agent and Machine Translation USD 100,000 2016-2018.
- Elseviere Netherlands Text Mining, Information Extraction, Document Clustering Rs 20 Million 2015.