Tushar Dhyani

| ■ dhyanitushar@gmail.com | ★ tushardhyani.com | ☐ Github | in LinkedIn % Kaggle

Professional Experience

Sony

Stuttgart, BW, Deutschland Nov. 2021 - Present (16 Months)

WERKSTUDENT - AI, SOUND AND SPEECH RESEARCH LAB

• Responsible for Source Separation Framework and implementation of new researches into the framework.

- Responsible for an internal framework for Audio and speech augmentation.

Hessian.ai Darmstadt, Hesse, Deutschland

WERKSTUDENT

August. 2021 - Oct 2021 (3 Months)

- Designed topic modeling framework for European Federal Election 2021.
- Integration and deployment of other modules and resources into the main backend.

Genietalk Mumbai, Maharashtra, India

JUNIOR DATA SCIENTIST March. 2019 - March. 2021 (2 Years)

- Our team created a Conversational SaaS platform, which helped in raising \$750,000 in series A funding.
- Completely responsible for conversational turn-taking agent.
- · Adaptation and integration of the conversational agent for a few low-resource Indian languages.

DATA SCIENCE INTERN July. 2018 - Oct. 2018 (3 months)

- Implementation of Microsoft R-net & BiDirectional Attention Flow for domain specific machine comprehension.
- Built a language identification tool for identifying English and English-typed language used in text-based conversations.

Education

Universität Stuttgart

Stuttgart, BW, Deutschland

MASTER OF SCIENCE IN COMPUTATIONAL LINGUISTICS

Apr. 2021 - Ongoing

• Coursework: Core Linguistics - Advance Machine Learning, Emotion Analysis, Parsing, Machine Translation, Machine Learning, Ethics in NLP.

Madhav Institute of Technology & Science B.E. IN INFORMATION TECHNOLOGY (7.6/10 WITH Hons.) Gwalior, Madhya Pradesh, India

June. 2014 - June. 2018

Projects

Diffusion Denoising of speech

Stuttgart, Germany

CREATED DENOISING FRAMEWORK USING DIFFUSION MODELS FOR SPEECH.

July 2022 - Present

· Research on noise removal from speech signals from the Frequency-time domain using the diffusion-based generative network. Project supervised by Ph.D. candidate Florian Lux. [Report], [Poster], [Code]

Emotion Stimuli Stuttgart, Germany

EMOTION ROLE LABELING MADE EASY WITH HMM AND TRANSFORMERS.

July 2021

• Detailed project on capturing fine-tuned emotions from a piece of text. Under the guidance of Prof. Roman Klinger. Click to view [Report], [Code]

Audiomentation Stuttgart, Germany

AUDIO AUGMENTATION LIBRARY.

• Contributions of open-source audio augmentation library. View [Code]

Evincing disparity in ethical evaluation of Generative agents

Stuttgart, Germany

EVALUATION OF NATURAL LANGUAGE GENERATIVE CONVERSATIONAL AGENT

July 2021-Sept 2021

· Reported a study on evaluation of generative models based on checklist mechanism. Click to view [Report]

TUSHAR DHYANI · RESUME MARCH 1, 2023

Bengali Grapheme detection

Mumbai, Maharashtra, India

ALPHA-SYLLABARY LANGUAGE GRAPHEME DETECTION

Jan 2020-Mar 2020

• Handwritten Bengali grapheme detection and separation of constituents of images into: grapheme root, vowel diacritics, and consonant diacritics.

Skills

Frameworks:	PyTorch	Tensorflow	HuggingFace	Scikit-learn	Pandas	Numpy	Matplotlib	NLTK	Spacy
Tools:	Docker	Kubernetes	Elasticsearch	MySql Mon	goDB D\	/C Git	GitHub-Actio	ns CI	Flask

Publications

Handling Contextualized English For Conversational Agents

ICMISC 2020 conference

CREATING LANGUAGE HANDLING FOR CONVERSATIONAL AGENTS

Mar. 2020

• You can read the paper here: https://www.researchgate.net/publication/337012846_HANDLING_CONTEXTUALIZED_ENGLISH_TYPED_REGIONAL_LANGUAGES_FOR_CONVERSATIONAL_AGENTS_TECHNICAL_REPORT

Forecasting Tuberculosis Morbidity Rate

ICICSS'2018 conference

T.B MORBIDITY ANALYSIS USING A DEEP LEARNING ALGORITHMS

Sept. 2018

- Presented a paper on Tuberculosis morbidity with time analysis paper in International Conference on Intelligent Computing and Sustainable System conference held under IEEE chapter.
- You can read the paper here: https://www.researchgate.net/publication/327776140_Using_Deep_Learning_for_Forecasting_Tuberculosis_Morbidity_Rate

Achievements

Mar-2020Kaggle-Bengali.ai Grapheme detection, Secured 55th rank (top 2%) and Silver medal on KaggleIndiaOct-2019Kaggle Expert, Expert in 2 categories - Discussion and Kernel.IndiaMar-2017Google CodeJAM-Qualification round, Facebook-Hackercup Qualifier,Gwalion

Dec-2015 **ACM ICPC-Kharagpur Regionals**, Member of team *CPP Killers* which ranked 42 (out of 76).