| in LinkedIn % Kaggle

Professional Experience

Sony WERKSTUDENT - AI, SOUND AND SPEECH GROUP Stuttgart, BW, Deutschland

Nov. 2021 - Present (14 Months)

- Created enhanced audio dataset pipelines for speech separation framework.
- Adapted audio augmentations package for the framework.

Hessian.ai Darmstadt, Hesse, Deutschland

WERKSTUDENT August. 2021 - Oct 2021 (3 Months)

- Developed backend in Python for European Federal Election 2021 with Elastic Search and Docker.
- Designed topic modelling and argument mining pipelines for daily news insights.

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.
- · Worked on MultiLingual conversational agents, code-mixing, Generative conversational agents and Speech to Text.

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

- Research on Microsoft R-net & BiDirectional Attention Flow for 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

Diffusion Denoising of speech

Projects

Stuttgart, Germany

CREATED DENOISING FRAMEWORK USING DIFFUSION MODELS FOR AUDIO.

July 2022 - Present

· Working on noise removal framework from speech signals using Diffusion based generative models.

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. Link

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-lea	arn Pand	as N	lumpy	Matplotlib	NLTK	Spacy
Tools:	Docker	Kubernetes	Elasticsearch	MySql	MongoDB	DVC	Git	GitHub-Actio	ns CI	Flask

Publications

Action based QA for Conversational Agents

FRAMEWORK MODIFICATION FOR CONVERSATIONAL DIALOGUE FLOW

 You can read the paper here: https://www.researchgate.net/publication/337682017_ACTION_BASED_QA_FOR_ CONVERSATIONAL_AGENTS

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-2020 Kaggle-Bengali.ai Grapheme detection , Secured 55th rank (top 2%) and Silver medal on Kaggle	India			
Oct-2019 Kaggle Expert, Expert in 2 categories - Discussion and Kernel.				
Mar-2017 Google CodeJAM-Qualification round, Facebook-Hackercup Qualifier,				
Dec-2015 ACM ICPC-Kharagpur Regionals , Member of team <i>CPP Killers</i> which ranked 42 (out of 76).	IIT-Kharagpur			