Pranjali Basmatkar

NLP Master's student with an unbridled appetite for artificial intelligence backed with 3+ years of industry experience designing, experimenting with, and developing innovative AI solutions for clients across the globe.

praniali97

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EDUCATION

M.S. Natural Language Processing | University of California, Santa Cruz

SEP 2022 - PRESENT

CGPA: 3.9/4.0 | California, USA

B.Tech. Computer Engineering | Narsee Monjee Institute of Management Studies

JUL 2015 - MAY 2019

CGPA: 3.19/4.00 | Mumbai, India

SKILLS

Python • Pytorch • Keras • Fairseq • Transformers • LangChain • Python • Machine Learning • NLP • Large Language Models • AWS • HuggingFace • Streamlit • GCP • Docker

EXPERIENCE

Research Engineering Intern | ALLEN INSTITUTE FOR ARTIFICIAL INTELLIGENCE Seattle, WA

JUN 2023-PRESENT

→ Research Engineering Intern with the AllenNLP team for the Summer of 2023.

Senior Machine Learning Engineer | Quantiphi Analytics Solutions Pvt. Ltd. Mumbai, India

APR 2020 - AUG 2022

- → Spoken language identification Implemented a transformer-based model to identify distinct language segments on language-mixed audio files to improve transcription quality by 40 %.
- → Intent identification on call log data Developed a call log insight generation tool using BERT and LDA embeddings for topic modeling in the conversational AI domain.

Machine Learning Engineer | Quantiphi Analytics Solutions Pvt. Ltd.

MAY 2019 - MAR 2020

Mumbai, India

- → Credit risk analysis Feature engineered 300+ banking related features to build a boosting-based classification model
- → Anomaly detection on emails Solutioned an 84% accurate, ML-based data loss prevention software for a Canadian insurance organization

Intern | CRIMSON INTERACTIVE Mumbai, India

JULY 2018 - FEB 2019

→ Grammatical Error Correction - Incorporated a grammatical error correction model based on Seq2Seq with Attention mechanism achieving an F1 score of 0.81 to replace their existing rule-based system using OpenNMT and FairSeq libraries.

PROJECTS AND PUBLICATIONS

Formality Controlled Neural Machine Translation | ACL

FEB 2023 - APR 2023

→ Formality-controlled NMT using the style-embedding intervention. Accepted in IWSLT, 2023.

Multilingual text intimacy detection | UCSC

OCT 2022 - DEC 2022

→ Tuned Multilingual XLM Roberta to achieve Pearson's R of 0.82 using few-shot and zero-shot learning for SemEval 2023.

Contextual Topic Modelling using BERT | Springer

JAN 2022 - MAR 2022

Proceedings of the Third ICCCES, Springer, Singapore DOI: 10.1007/978-981-16-8862-1_32

→ Proposed a hybrid context-based approach to improve the overall quality of topic modeling tasks by performing qualitative analysis between existing related work.

Neural Machine Translation for Multilingual Translation System | IEEE

JAN 2019 - MAR 2019

Proceedings of Third ICCMC, IEEE. DOI: 10.1109/ICCMC.2019.8819788

→ Proposed a Seq-to-Seq neural machine translation system tool between English and Hindi using attention.