





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.

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EDUCATION

M.S. Natural Language Processing | UNIVERSITY OF CALIFORNIA, SANTA CRUZ SEP 2022 – PRESENT
CGPA : 3.8/4.0 | California, USA

B.Tech. Computer Engineering | NARSEE MONJEE INSTITUTE OF MANAGEMENT STUDIES JUL 2015 - MAY 2019
CGPA : 3.19/4.00 | Mumbai, India

SKILLS

Pytorch • Keras • Tensorflow • Python • Machine Learning • Deep Learning • NLP • AWS • Machine Translation • Speech Recognition

EXPERIENCE

Senior Machine Learning Engineer | QUANTIPHI ANALYTICS SOLUTIONS PVT. LTD. APR 2020 – AUG 2022
Mumbai, India

- **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.
- **Leadership experience** - Mentored two machine learning interns for 6 months who then went on to accept full time ML roles in the organization.

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** - Solved an 84% accurate, ML-based data loss prevention software for a Canadian insurance organization

Intern | CRIMSON INTERACTIVE JULY 2018 – FEB 2019
Mumbai, India

- **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

Multilingual text intimacy detection | UNIVERSITY OF CALIFORNIA, SANTA CRUZ OCT 2022 - PRESENT
CA, USA

- 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 ICCES, 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 automatic neural machine translation system tool between English and Hindi using attention mechanism.

CERTIFICATIONS

Mathematics for Machine Learning: Linear Algebra | IMPERIAL COLLEGE LONDON JULY 2022 - AUG 2022

Mathematics for Machine Learning: Multivariate Calculus | IMPERIAL COLLEGE LONDON JUN 2022 - JUL 2022