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# PRATIK MEHTA

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## PROFILE

A mix of NLP research and Generative AI backend engineering

## EXPERIENCE

DELOITTE INDIA (OFFICES OF THE US)

2020-2024

Tech Consultant

- Served as a back-end engineer, successfully deploying APIs to production.
- Designed and implemented a micro-service from scratch, enabling structured data retrieval over enterprise-scale data.
- Developed a taxonomy and evaluation system for RAG systems, utilizing statistical testing on a synthetically generated test-set of question-answer pairs.

CENTER FOR INDIAN LANGUAGE TECHNOLOGY - IIT BOMBAY

2015-2016

Research Engineer

- Trained and deployed machine translation systems for English-Marathi and English-Indonesian medical domain text translation, enhancing language accessibility in healthcare.
- Designed an error analysis engine to identify and classify syntactic errors in translations, and developed a greedy algorithm for automatic post-editing, improving translation quality and efficiency.
- Co-compiled the IIT Bombay English-Hindi parallel corpus, a significant resource in the field of natural language processing.

## EDUCATION

UNIVERSITY OF MASSACHUSETTS AMHERST – MS COMPUTER SCIENCE

2016-2019

UNIVERSITY OF MUMBAI – BE COMPUTER ENGINEERING

2011-2015

## PROJECTS

LegalEase

- Conceptualized and developed LegalEase - an early RAG system for legal document QnA, featuring a cross-lingual search capability over a multi-lingual document collection.
- LegalEase won second place in the Cohere multilingual semantic search hackathon organized by lablab.ai and sponsored by Qdrant cloud and Cohere.

## SKILLS

Languages: python (experienced), rust (new)

Databases: PostgreSQL, Qdrant (vector-db)

Libraries: numpy, FastAPI, SQLAlchemy, pandas



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Mumbai

