

Pratik Mehta

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EXPERIENCE

Career break

Oct 2024 – 2025

Unaffiliated

Mumbai, India

- Revisited ML fundamentals & reflected on the limits of LLM applicability

Freelance Sr. Software Engineer

July 2024 – Oct 2024

Scale AI via Outlier

Mumbai, India

- Trained to provide qualitative and quantitative feedback on LLM produced code, API calls, and code, and was rated a top contributor

Consultant, Machine Learning & GenAI

Nov 2020 – Jun 2024

Deloitte Digital USI

Mumbai, India

- Designed & developed REST APIs using FastAPI, PostgreSQL, and Llama served over AWS to answer user questions about live quantitative enterprise KPI data for Beta testing by a few thousand users
- Initiated a project to concretely evaluate LLM-in-the-loop systems using bespoke metrics
- Developed use-cases and AI-adoption strategies for AI-aspirant enterprise clients

Research Engineer

Aug. 2015 – Jul. 2016

Indian Institute of Technology Bombay

Mumbai, India

- Trained and deployed phrase-based statistical machine translation systems for English-Marathi and English-Indonesian using medical-domain textbooks
- Designed an error analysis engine to identify and classify syntactic errors in translations, and developed a greedy algorithm for automatic post-editing, evaluated via BLEU scores and human evaluators

Research Assistant

June 2018 – Sept 2018

Information Sciences Institute, University of Southern California

Waltham, MA

- Studied correlation between different evaluation metrics for machine-translation in cross-lingual search engines

EDUCATION

University of Massachusetts Amherst

Amherst, MA

Master of Science in Computer Science

Aug 2016 – May 2019

D. J. Sanghvi College of Engineering, University of Mumbai

Mumbai, India

Bachelor of Engineering

Aug 2011 – Jun 2015

PUBLICATIONS

The IIT Bombay English-Hindi parallel corpus | *LREC '18*

The challenges of optimizing machine translation for low-resource CLIR | *EMNLP '19*

Investigating the potential of post-ordering SMT output to improve translation quality | *ICON '15*

PROJECTS

Sony Persona-Grounded Commonsense Reasoning challenge - API track | *AIcrowd contest*

May 2025

- Tweaked prompts, API, and parameter choice to improve tool-calling accuracy for a videogame NPC agent

Alfred: LLM powered dispatch of hyper-personalized notifications | *Llama*

Jan 2024

- Developed a POC to track users' plain-language notification preferences and notify them based on live-data

LegalEase: Cross-lingual semantic search engine | *Cohere, Qdrant*

Mar 2023

- Developed an application that answers questions factually based on lengthy legal documents (now called RAG) as well as a multi-lingual semantic search engine for any-language-query to any-language-document retrieval
- Was a finalist in the Semantic Search hackathon co-organised by lablab.ai

TECHNICAL SKILLS

Languages: Python, Rust, SQL (Postgres), HTML

Frameworks: FastAPI, gradio, streamlit, qdrant, pytorch

Developer Tools: Git, Docker, VS Code, RustRover

Libraries: pandas, NumPy, scikit-learn, langchain