# Priyank Modi

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## EDUCATION

**B.TECH (HONORS) | CGPA - 8.38**
Major- Computer Science
IIIT Hyderabad, India

**MS BY RESEARCH (INTEGRATED) | CGPA - 10**
Major- Computational Linguistics
IIIT Hyderabad,India
Expected May 2022

## ACHIEVEMENTS

**RUNNER UP - ADOBE GENAI HACKATHON**
(2022)
Awarded the runner-up idea idea in an org-level hackathon on the Generative AI theme.

**TOP IDEA - ADOBE DX GARAGE WEEK**
(2022)
Awarded the best idea in an org-level week-long hackathon for optimizing a major feature and in turn solving intermittent errors because of processing time.

**DEAN'S LIST IIIT-H**
(2019-20, 2020-21)
Awarded to the top 5% students of the class for excellence in academic performance in a semester.

**OUTSTANDING VOLUNTEER AWARD IIIT-H**
(2021)
Awarded to a single student acknowledging their significant contribution to one or more fields within or outside the institute during their entire period at IIIT-H.

**MEGATHON'18**
(1st out of over 400 teams)
Created 'frisk', a cloud service to sandbox data with android, windows and linux clients. Hackathon organized by IIT-H and IIIT- H.

## COURSEWORK

Data Structures and Algorithms
Operating Systems
Computer Networks
Database Systems
Software Engineering
Advanced NLP
Optimization Methods
Engineering Systems
Computational Linguistics
Statistical Mechanics in AI

## TECHNICAL SKILLS

- C++
- Java
- Python3
- ReactJS
- Javascript
- C
- Bash
- HTML
- CSS
- SQL

## WORK EXPERIENCE

**ADOBE** | Software Development Engineer 2
July '22 - present day | Java, Spring, ReactJS, Spark, SQL

As part of Adobe's AEM Dynamic Media team, I:
(1) Integrated **generative AI** and **advanced templating** on **delivery**, enabling dynamic content delivery via URL modifiers for client-side personalization
(2) Implemented React JS in existing Coral UI, improving development and maintainability.
(3) Added DASH protocol for video and multi audio-caption feature, including **auto transcription**.
(4) Optimized smart crop feature, achieving up to **10x faster** processing.
(5) Received an early progression for owning the outcome in feature development.

**QURIATE** | Founding Engineer - Frontend
August '21 | React, JS

At **Quriate**, an online platform for digital learning, I achieved significant milestones:
(1) Developed a reliable React JS application for Quriate, an online class management platform.
(2) Built a loyal **customer base of 5000 users**, surpassing competitors in reliability and overall user experience.
(3) **Led UI/UX and product design** for a visually appealing and user-friendly interface.

**GOOGLE SUMMER OF CODE** | Contributor at Apertium
May '20 - August '20 | XML, Python, Bash

(1) Developed a **state-of-the-art** two-way Hindi-Punjabi translator using the Apertium architecture.
(2) Created monolingual dictionaries, bilingual dictionary (Hindi-Punjabi), and transfer rules. Project Page

**INDIAN SCHOOL OF BUSINESS** | Data Science Intern under Prof. Deepa Mani
May '19 - July '19 | Python3, R, Sklearn, Selenium

(1) Built a patent-based company clustering system using Summarization techniques and advanced unsupervised learning algorithms (k-means, LDA, doc2vec, glove).
(2) Leveraged expertise in data visualization to enable insightful visualization of current company interests.

## PUBLICATIONS

**HINDI TIMEBANK: AN ISO-TIMEML ANNOTATED REFERENCE CORPUS**
(co-author) ACL - ISO Workshop (LREC 2020)
In this paper, we present the Hindi TimeBank(a 1,000-article dataset with over 25,000 events, 3,500 states, and 2,000 time expressions), an ISO-TimeML annotated reference corpus for the detection and classification of events, states, and time expressions, and the links between them. Link to Paper

## MAJOR PROJECTS

**LINUX SHELL**
Operating Systems Course Project under Prof. P.K. Reddy
Implemented a Bash like shell in C that supports piping, i/o redirection, basic linux commands and keyboard interrupts using system calls. Github Repo

**ACTIVE LEARNING BASED TOOL FOR 3D DENSE CAPTIONING**
Deep Learning project with Dr. Maneesh Singh and Prof. Somak Aditya
An opensource tool that allows training the popular Machine Learning models(like D3Net) on the task of 3D dense captioning. The idea is to extend this tool to models suited for other tasks and eventually build better models that beat the sota

**LONG DOCUMENT SUMMARIZER**
NLP Project under Prof. Vasudev Verma for Digitalee
Digitalee Summarizer is a real-time long document summarization tool that allows users to upload multiple documents using the UI and generate document summary. Users can select pre-defined personas or specify multiple keywords on the go, which define the focus of the summary. The API offers multiple summarization models like Lexrank, LSA and ML models trained on financial documents. Digitalee Summarizer

**MULTIPLAYER TIC-TAC-TOE**
Artificial Intelligence in Games under Prof. Praveen Paruchuri
An artificially intelligent agent was coded using custom heuristics and **Alpha-Beta pruning on minimax decision trees** to play Ultimate-Tic-Tac-Toe. Our bot won third place amongst our batch contest where all bots were played against one another.