

# Tanay Kulkarni

[tanaykulkarni06@gmail.com](mailto:tanaykulkarni06@gmail.com) | [tanaykulkarni.github.io](https://tanaykulkarni.github.io) | [linkedin.com/in/tanaykulkarni06](https://linkedin.com/in/tanaykulkarni06) |

+1 (812)-369-0671 | Bloomington, IN

## EDUCATION:

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Indiana University, Bloomington, IN

Dec-2022

Master of Science in Data Science

3.67 **GPA**

University of Mumbai, Mumbai, India

Jun-2020

Bachelor of Engineering in Information Technology

3.7 **GPA**

## TECHNICAL SKILLS:

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**Programming languages/Web Technologies:** Python, R, SQL, HTML, CSS, JavaScript, Bootstrap

**Big Data/ Machine Learning/ libraries:** PySpark, FastAPI, MongoDB, NLP, Time series, scikit-learn, pandas, numpy

**Data Science & Miscellaneous:** A/B testing, ETL, Data Science pipeline (cleaning, wrangling, visualization, modeling, interpretation), Data Mining, Git, Microservices, REST APIs, Docker, Power BI, Product Management

## WORK EXPERIENCE:

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Research Assistant - Kelley School of Business, Bloomington, IN

May 2021 - Jul 2021

- Worked on Named Entity Recognition (NER) and biography parsing using StanfordCoreNLP and NLTK packages
- Designed and developed a one-stop UI to parse biographies in the form of text and files, which saved **more than 50% of code usability time** and expanded its scope of utilization to non-technical professionals

Product Data Analyst Intern - smallcase Technologies Pvt Ltd, Bangalore, India

Jul 2020 - Jan 2021

- Implemented MongoDB queries in Redash to generate **interactive** data visualization **dashboards** which helped the stakeholders to determine and recommend profitable stocks to the clients
- Enhanced the automation pipeline and expedited the process for the generation and delivery of **MIS reports by 40% using Google Apps Script**

Co-founder - SPECable, Mumbai, India [🔗](#)

Aug 2019 - Jun 2020

- Led the development of an **assistive technology** for children having Dyslexia and Dysgraphia helping them read on the go and correct errors dynamically while writing so that they could be **on par with their peers**

## PROJECTS AND PUBLICATIONS:

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Demand Forecasting for COVID-antibody treatment - Eli Lilly and Company [🔗](#)

- Translated different seasonalities in the COVID-19 cases and delivered **demand predictions** of the new antibody shots made by the company for the **elderly and the obese** using different time-series forecasting techniques
- Presented our results and insights to the **company's leadership** to help them strategize long term solutions

Customer reaction analysis using emotion recognition model [🔗](#)

- Integrated the facial emotion recognition model, sentiment analysis model and an aspect-based LSTM model (Natural Language Processing) to make a **comprehensive hybrid model for reaction analysis**
- This method enhanced the traditional product feedback systems making it more **sensitive to human emotions** [🔗](#)

Recommendation System for E-learning portal [🔗](#)

- Clustered the users using user-profiling techniques and **recommended content** to the users based on their content-interaction history and similarity with other peers in the same user pool using **collaborative filtering**
- Using **hybrid filtering methods** for recommendation allows better personalization of content and increases the adaptiveness of the users to learning management systems. Publication - eISBN 978-1-7281-2327-1 [🔗](#)

## ACHIEVEMENTS:

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- Patent: **Analysing the inputs from eyewear with camera, recorder and brain activity sensor** (under ownership)
- **National Runners up India** - KPMG Ideation Challenge 2020