

# Tanay Kulkarni

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+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 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** [🔗](#) *FBProphet | ARIMA | LightGBM*

- 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** [🔗](#)

*CNN | LSTM | NLTK | Flask*

- 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** [🔗](#)

*Python | Collaborative Filtering*

- 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