Tanay Kulkarni

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

EDUCATION:

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:

Programming languages/Web Technologies: Python, R, SQL, HTML, CSS, JavaScript, Bootstrap
Big Data & Machine Learning: PySpark, FastAPI, MongoDB, NLP, Time series, Python(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:

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:

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

Potential customer classification in Customer Relationship Management using Fuzzy Logic

- The research paper focused on the application of ***fuzzy logic to CRM systems*** to understand the factors affecting the potential of a lead converting to a customer in the near future - eISBN 978-3-030-38040-3