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% which reduced using Google Apps Script

Co-founder - SPECable*, Mumbai, India* ↖   Aug 2019 - Jun 2020
- Ideated, designed and led the development of an assistive technology for children having Dyslexia and Dysgraphia helping them read on the go and correct errors 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* ↖
- Translated different patterns and seasonalities in the COVID-19 cases and delivered demand predictions specifically 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 for Natural Language Processing to make a comprehensive and reliable hybrid model for reaction analysis
- This method enhances 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 ↖

Potential customer classification in Customer Relationship Management using Fuzzy Logic ↖
- The research paper focused on the application of fuzzy logic to CRM systems to get a metric on the potential of a lead converting to a customer in the near future - eISBN 978-3-030-38040-3