Kriti Jaggi

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Profile

- **Strong technical skills:** Python, Angular, SQL
- **Drive to achieve:** Achieved Merit from Russell group University, Queen Mary University of London in Big Data Science. Secured GPA of 8.3 for Bachelor's (4-year course) in Computer Science and Engineering.
- **Advanced Critical analysis:** Made existing code for the NGO's website more modular and efficient on noticing same code for various components such as the nav-bar and footer was repeating on each web-page
- **Excellent communication skills:** Developed over a year worth of technical experience at NGO, Schneider Electric and Cranfield University

Education

MASTER OF SCIENCE | QUEEN MARY UNIVERSITY OF LONDON **MARCH 2023**

- **Major**: Big Data Science
- **Modules of significance:** Applied Statistics, Information Retrieval, Big Data Processing, Cloud Computing, Data Mining, Risk and Decision Making for Data Science and AI, Principles of Machine Learning, NLP

BACHELOR OF TECHNOLOGY (Four-year course) |MANIPAL ACADEMY OF HIGHER EDUCATION **AUGUST 2021**

- **Major**: Computer Science and Engineering
- **Modules of significance:** Data Structures, Design and Analysis of Algorithms, Object Oriented Programming, Database Systems, Operating Systems, Computer Networks, Parallel Computer Architecture and Programming, Compiler Design, Applied Linear Algebra

Technical Skills

- MongoDB
- Data Wrangling
- SQL
- Angular
- Docker
- TF- IDF
- Core Java
- JavaScript
- Python (Flask, NumPy, Scikit, NLTK, pandas)
- PageRank
- C#
- Regression
- K- means clustering
- DBSCAN
- Hierarchal clustering
- Set- based models
- Hadoop
- C
- C++
- Boolean model
- VSM
- BIRM

Relevant Experience

WEB DEVELOPMENT VOLUNTEER | RHLF NGO, INDIA **(MARCH 2023- JUNE 2023)**

- Volunteered with an NGO in India specialising in helping empower Women and assisting homeless people. Website developed using HTML, CSS and vanilla JavaScript.

PART OF QINCUBATOR PROGRAMME IN PARTNERSHIP WITH SANTANDER UNIVERSITIES

(9 FEB 2022 – 30 MARCH 2022)

- Selected to be part of an intensive 8-week incubator program run by the university to groom future entrepreneurs by allowing us to build our business ideas under the guidance of a mentor.

SOFTWARE ENGINEERING INTERN | SCHNEIDER ELECTRIC, INDIA (FEB 2021 – JULY 2021)

- Designed the front-end of the project as per available mock-ups using Angular8 (with html, sass, and bootstrap). Studied and implemented concepts such as Components and their interactions, state management and pagination.
- Achieved 91% statement coverage on business logic files using unit testing to help identify bugs and unreachable code before proceeding with refactoring. This was done using .NET core (C#).
- Created health checks for the 3 main API systems of the project and their markdown documentation.

SUMMER INTERN AT CRANFIELD UNIVERSITY (SUMMER OF 2020)

- Project: Mathematical Modelling for Engine Simulations
- Employed C# and ggplot package to create a front-end application displaying mathematical representations of the Brayton Cycle for the engine simulation data obtained.
- Implemented data wrangling and database creation for the project.

Technical Projects

1) JOB SEARCH WEB APPLICATION

- A web application using REST based APIs to search for jobs. Implemented a smart recommender system to select the required and relevant details from the resume and recommend the most suitable jobs according to most suitable jobs.
- Implemented the front-end of the application using Flask (along with html and CSS) and CRUD operations with the mongoDB database setup.

2) EVENT DETECTION ON TWEETS

- An NLP model that is performed on gathered tweets. The model cleans the tweets and identifies possible events from the corpus based on Wikipedia title pages and bursty time segments.
- Can be modified to detect different kinds of events of interest based on domain specifications. For example, detection of natural calamities or detection of protests emerging in an area.

3) SONG IDENTIFICATION USING 'MLEnd Hums and Whistles' DATASET

- Designed a machine learning pipeline to identify the song that is hummed or whistled in the dataset.
- Used audio features such as power, pitch, MFFC and chroma.
- Used a SVM model and CNN to classify the 7 different songs.

4) DISTRIBUTIONAL SEMANTICS OPTIMIZATION ON DIALOGUES

- Aim was to optimise the performance of vector space semantic and utilize it to find the similarity between various actors in the TV series (using Eastenders script data). This was done by performing NLP tasks on their spoken dialogue.
- The character vector representations were improved by using exhaustive pre- processing, feature extraction like POS tags, n- grams and using TF- IDF for transformation.