Urvashi Ramdasani
Data Engineer

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Portfolio Leetcode GitHub

A results-driven Data Engineer with **2 years of hands-on experience** in developing scalable software applications. Proficient in designing and implementing efficient data pipelines, utilizing advanced ETL techniques and cloud-based technologies. Skilled in software development methodologies, including Agile, and proficient in multiple programming languages such as Python, Java, and BigQuery.

EDUCATION

Bachelor of Technology, Computer Science and Engineering, Nirma University, PPI: 8.32/10.00   **Jun 2018 — Jun 2022**
Higher Secondary Education, Science, Kendriya Vidyalaya, %age: 95.4 %   **Mar 2016 — Mar 2018**

EXPERIENCE

Software Development Engineer II (Full Time)   **Jun 2022 — Current**
Walmart Global Tech India   Bengaluru, Karnataka

- Working on developing ETL pipelines for large-scale data processing, real-time stream processing using **Kafka**, and data analytics using **Apache Spark** and **Java**.
- Hands-on experience with **Apache Airflow** for designing and implementing workflow automation solutions for data pipelines.
- Won Bravo Award twice for my work on the project for **Engineering Excellence** and **Innovation**.

Software Engineer (Intern)   **Jan 2022 — May 2022**
Crest Data Systems   Ahmedabad, Gujarat

- Developed and worked on a Network Monitoring App that captures, and analyzes logs generated by a Network. Provided functionalities of searching and dashboards for different business use cases.
- Utilized **Splunk** and **Python** extensively during the internship to analyze logs and extract meaningful insights for operational improvement.

Machine Learning Engineer (Intern)   **Dec 2020 — Feb 2021**
CodeTrophs   New Delhi

- Performed data collection of open-access research papers using **Web Scraping**. Wrote a **Python** script for downloading research papers from Google without getting blocked.
- Developed a **Natural Language Processing** model that predicts the domain area of the research paper using the abstract and keywords of the paper. The accuracy achieved was around **60%**.
- Coordinated with the front-end team to develop a front-end of the application based on the required input from the user to run the model. See my work *here.*

PROJECTS

Admission System in Java
- A console-based admission system written in Java that allows students to enter their details such as name, marks, branch preferences, and contact details. Based on the marks of all students and their preferences, the branches are assigned to the students.
- Includes implementation of various Java concepts such as **Object Oriented Programming (OOP), Exception Handling, File Handling, and Sorting**. See my work *here.*

Reddit Flare Detection
- A web application that predicts the flare/category of a Reddit post entered by the user. A user needs to input the link to the Reddit post, and the application scans the title of the post and predicts its category.
- Developed using Natural Language Processing techniques for processing text input and Machine Learning algorithms such as **XGBoost**, **Logistic Regression,** etc. for **classification**. The best accuracy around **69%** was obtained by the **Logistic Regression** classifier.
- The application was developed using **Flask**. See my work *here.*

Handwritten Digit Recognition
- A GUI-based application that takes a handwritten digit as input and classifies it in the digits. The GUI is made using the **Tkinter** framework. The model is an ANN implemented from grass root level using Python programming language. The achieved accuracy of the model is **92%**.
- The different libraries used in the project are **Numpy, Tensorflow, and Keras**. Implements Stochastic Gradient Descent inside the class Network. See my work *here.*

ML-DL-Python

- This repository includes different ML and DL projects done by me. Some of the DL projects include **Transfer Learning**, **Image Captioning**, **GANs**, etc. Some of the ML projects include implementation of **Gradient Descent**, **Naive Bayes**, **Decision Trees**, etc.
- Includes some implementations of Python and its libraries such as **sklearn**, **numpy**, **matplotlib**, **pandas**, etc. See my work *here.*

Skills

Programming Languages	C++, Java, Python
Libraries / Frameworks	Apache-Spark, Apache-Airflow, Apache-Kafka, Apache-Parquet, Delta
Tools / Platforms	Git, GitHub, Shell, Linux, Microsoft Office, Hadoop, Docker, Kubernetes, Google Cloud Platform
Databases	SQL, MySQL, BigQuery

Volunteer / Leadership Experience

Vice-Chairperson, IEEE Student Branch Nirma University   Jan 2021 — Jan 2022
- Conducted national, state, and college events such as Women's Entrepreneurs Conclave, FUTURA: Path to Better Tomorrow, and Short-Term Training Program on Research Methodology.

Ambassador, IEEE TEMS India   Jun 2020 — Jan 2021
- Designed event posters for TEMS AIM: Awareness and Information Meet.

Ambassador, IEEE Xplore 14.0   Apr 2020 — Jan 2021
- Publicized the event in college and social media.

Student Branch Associate, IEEE AISYWLC 2020   Nov 2020 — Dec 2020
- Represented the college in the event and performed micro-tasks to carry out the publicity of the event.

Web Developer, IEEE CSIS 2020   Sep 2020 — Nov 2020
- Developed teams page and schedule page on the official IEEE CSIS 2020 website.

Publications

1. **Ramdasani**, **U.** *et al.* DuBloQ: Blockchain and Q-Learning Based Drug Discovery in Healthcare 4.0. *IWCMC 2022,* 284–289 (July 2022).

2. Shukla, A. *et al.* BCovX: Blockchain-based COVID Diagnosis Scheme using Chest X-Ray for Isolated Location. *ICC 2021 - IEEE International Conference on Communications* (2021).

3. **Ramdasani**, **U.** A Review of Kernel Methods in Machine Learning. *Presented at ACECAT 2020 - the first ever student conference* (2020).