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Urvashi Ramdasani

Software Engineer

LinkedIn Leetcode
Portfolio GitHub

A final-year Computer Science and Engineering Student passionate about developing something new and exploring new things.

Education

Bachelor of Technology, Computer Science and Engineering, Nirma University, PPI: 8.04/10.00 **Jun 2018 — Jun 2022**
Higher Secondary Education, Science, Kendriya Vidyalaya, %age: 95.4 % **Mar 2016 — Mar 2018**

Experience

AI Engineer (Intern) **Jun 2021 — Dec 2021**
VERMA GmbH Aying, Germany

- Worked on Forgery and Fraud Detection using AI techniques. Developed a Deep Learning model for image forgery detection that could accurately (around 70 % accuracy) detect copy move forgery.
- Worked on developing a Machine Learning model for text forgery detection using Random Forests. Created a dataset for copy move forgery in text documents.
- Deployed the image forgery detection model using Django and developed an API to connect it to front-end using React. See my work *here.*

Web Developer (Intern) **Jun 2021 — Aug 2021**
AGRICAA Jaipur, Rajasthan

- Developed front-end of pages such as login, sign-up, my-cart, product description, certificate portal, related products, etc. using plain HTML, CSS and Bootstrap for both web and mobile applications.
- Connected these pages with back-end using PHP. Performed database management and administration on MySQL.

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 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.*

Web Developer (Intern) **Jul 2020 — Sep 2020**
Iniesta Webtech Solution Noida, Uttar Pradesh

- Developed front-end for pages such as login, sign-up, terms and conditions, etc using plain HTML, CSS, and Bootsrap for a matrimonial website OUR VEDIK.
- Connected these pages with back-end using Nodejs and Expressjs. Database management and connection done on MongoDB. See my work *here.*

Projects

Yelpcamp

- A simple campground application that allows users to create, update, read and delete campgrounds. Users can also login and sign-up. Users also have access to their profile where they can view and update their campgrounds. Users can also comment on other users' posts and give reviews.
- Developed using HTML, CSS, Bootstrap, JavaScript, Expressjs, Nodejs and MongoDB. See my work *here.*

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, 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 (69%) was obtained by Logistic Regression classifier.
- The application was deployed on Flask and then on Heroku. 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 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 class Network. See my work *here.*

Calculator App

- A simple android application that performs normal calculator operations such as addition, subtraction, multiplication, and division. Developed using Android Studio. See my work *here.*

Algorithms

- This repository includes implementations of various algorithms in C / C++ programming languages. The various categories of algorithms implemented are Dynamic Programming, Recursion, Graphs, Searching, etc. See my work *here.*

Data Structures

- This project involves implementations of different data structures such as array, linked list, stack, etc and the application problems where they are used in C / C++ programming languages. The codes include all types of implementations, from naive to optimized. 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, C++, Java, Python, HTML, JavaScript, PHP, CSS
Libraries / Frameworks	Django, Bootstrap, Nodejs, Expressjs, React, Sklearn, Tensorflow, Keras, Numpy, Pandas, Matplotlib
Tools / Platforms	Git, GitHub, Shell, Linux, Adobe Photoshop, Adobe Illustrator, Microsoft Office, Hadoop
Databases	SQL, MySQL, MongoDB, Cassandra

Volunteer / Leadership Experience

Graphic Designer, IEEE India Council Student Coordination Team **Feb 2021 — Dec 2021**

- Designed posters for Independence Day post and IEEE India Council Student Coordination Team 2021 Board Reveal.

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 in the official IEEE CSIS 2020 website.

Graphic Designer, NaSCoVIP 2020 **Aug 2020 — Oct 2020**

- Designed speaker and event posters for the event.

Graphic Designer, IEEE PELS SYPS 2020 **Aug 2020 — Oct 2020**

- Designed event poster, volunteer identity cards and certificates for the participants.

Graphic Designer, IEEE AHWIESC 2020 **Feb 2020 — Mar 2020**

- Designed event poster for the Congress and call for participation.

Graphic Designer, IEEE Spyro 2.0 **Jan 2020 — Feb 2020**

- Designed event poster for Robotics Workshop.

Publications

1. 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).
2. **Ramdasani, U.** A Review of Kernel Methods in Machine Learning. *Presented at ACECAT 2020 - the first ever student conference* (2020).