MILI GOYAL

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Education

International Institute Of Information Technology, CGPA : 3.67/4   **Bangalore, India**
Integrated Masters of Technology in Electronics and Communication Engineering   *2017-2022*
Coursework Includes : Data Structures and Algorithms, Software Production Engineering, Programming, Machine Learning, OS, RTOS, Mathematics for ML, Advanced Visual Recognition, IOT, Techno Economics of Networks, Computer Networks.

Delhi Public School, Percentage : 96%   **Indore, India**
Higher Secondary Education   *2017*

Experience

MathWorks, India: EDG 6 Months Intern   *Jan, 2022 - Jun, 2022*
- Part of the Engineering Development Group in MathWorks, Bangalore.
- Working on the utilization of Android Emulators for SPKG verification along with Technical Support for customers.

MathWorks, India: EDG Summer Intern   *May, 2021 - Jul, 2021*
- Worked on the Arduino hardware diagnostics utility for the MATLAB support for Arduino.
- The utility facilitates the testing of Arduino API's in MATLAB.

IIM-Indore: Project Management Intern   *May, 2019 - Jul, 2019*
- Summer Internship under the supervision of Professor Srihari S. Sohani.
- Examined the case studies of various projects and analyzed the management decisions.

Academic Projects

Strikeout Text Detection and Removal from Handwritten Documents   *Mar 2021 - May 2021*
- Worked on an ML algorithm to detect and remove struck-out text from handwritten documents like essays. The project is a sub-part of another project (IIIT-B MPL Lab): "Automatic handwritten essay grading" which requires the strikeouts to be detected and removed.
- Line and word-level segmentation are performed for connected component identification. Classification algorithms using traditional feature extraction, as well as fine-tuning of an existing HWR model using PyTorch are developed.
- The data-set comprises handwritten essays by students.

Web Application: Room Interiors   *Apr 2021 - May 2021*
- Developed an application to serve as a 2 sided platform connecting people who have or are looking for creative design ideas for room interiors. The aim is to encourage creativity and provide solutions to those who can't afford professionals.
- Automated the entire life-cycle of the application using Dev-Ops tools like Git, Jenkins, Docker, Rundeck and ELK.
- The frameworks used in the development include : React, NodeJs and MongoDB.

Smart Waste Segregation System   *Feb 2020 - May 2020*
- Designed a smart system to identify and categorize the waste materials into recyclable, non-recyclable and organic waste categories.
- Built a Machine Learning model in Python by observing and studying the difference in material properties based on material perception which can be visualized from the image and extracted the most relevant features based on them for the model.

Positions Of Responsibility

- **Teaching Assistant** : Teaching Assistant at International Institute of Information Technology, Bangalore for the course of Operating Systems (2020) and Machine Learning (2021).
- **Mentor** : Mentor for the first-year students at IIIT-B as a part of the Student Mentor Program (SMP) to provide academic, social and personal support to help them settle in college. (2020)

Extra-Curricular Activities

- **Basketball** : Had been a member of DPS Basket Ball Team. Represented Institute in various Inter-school Tournaments.
- **Dance** : Member of the college dance club. Have practiced Bollywood dance for 4 years and Participated in many Dance Competitions at Institute level as well as in Community and Charity events.
- **Other** : Swimming, Skating, Piano.

Skills And Interests

- **Programming Languages and Frameworks** : Python, C, C++, MATLAB, React, Javascript, SQL, Git
- **Software and Platforms** : Linux, Arduino, RasberryPi, Worked on ESA-31 kit.
- **Languages Spoken** : English, Hindi, French.