# MANMOHAN DOGRA

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**Academics**

| Degree | Concentration | Pass-Out Year | Board/University | Institution | Score |
|---|---|---|---|---|---|
| Bachelor of Engineering (4 years) | Computer Engineering | 2021 | University of Mumbai | St. Francis Institute Of Technology | 8.47/10 (till-5th semester) |
| HSC | General | 2017 | CBSE | Kendriya Vidyalaya Jyotipuram | 79.3% |

**Undergraduate Coursework-** Machine Learning, Database Management System, Advanced Algorithms, Data Warehousing and Mining, Cryptography, Computer Graphics/Networks, Microprocessor, Software Engineering, Java, Python, C.

**Publications and Achievements/Certificates**
- A research paper with on '**Automated identification of disaster news using machine learning and natural language processing**' is accepted in the IEEE conference with **doi:**10.1109/ICESC48915.2020.9156031.
- **Deep Learning** Specialization Certificate (deeplearning.ai) - Coursera -2020
- **Tensorflow in Practice** Professional Certificate (deeplearning.ai) - Coursera-2020
- **Machine Learning** (Stanford University) - Coursera-2019
- **Data structures** and **algorithms**: ELITE (IIT Madras) - NPTEL-2019
- Received a **100% scholarship** from AICTE(a government organization) for my undergraduate - 2017
- Ranked in **top 10 percentile** for **AIPT**(Indian Association of Physics Teachers) competition, organized in 121 schools (K.V.Jyotipuram) - AIPT-2016
- Validated for the second round in Indian **National Mathematics Olympiad** (K.V.Jyotipuram) - 2015

**Internships**
- **Machine Learning Intern at Cenaura, Mumbai**                                                    **May 2020 - Present**
  - Developing an automated **Verticle Farming** system for plants to grow efficiently under a simulated environment using computer vision application for **disease detection**, a fuzzy system for its **health grading,** and **yield estimation** using deep learning.
  - Worked on a **research and development** project for COVID-19 to analyze the body imparted data and conclude the **possibility of the disease** occurrence to create an **auxiliary mask** for the same.
  - Created a Fuzzy Inference System to calculate the possibility of viral in a person by gathering data on breath patterns, oxygen saturation level, and body temperature.
  **Technology / Tools:** Machine Learning, Deep Reinforcement Learning, Django, Fuzzy Inference System, .
- **Machine Learning Intern at Therex, Mumbai**                                                    **Jun 2020 - Aug 2020**
  - Created a **noise suppressor** to **mask the noise** in the audio, projected on a server for processing a large amount of data.
  - Researched on **Hybrid Augmented technology**: HITL (Human In The Loop) and CC (Cognitive Computing).
  **Technology / Tools:** Machine Learning, Deep Learning, Tensorflow, Spark, Django, Cassandra, Slack, Airtable.
- **Machine Learning Intern at Blocklogy, Mumbai**                                                 **Nov 2019 - Jun 2020**
  - Created a **Live-Face Recognition** module for authentication of users for the transaction of money on the corporation portal.
  - Developed an **Agricultural Chatbot** to help the farmers with real-life problems such as enhancing the production, provide suitable suggestions for growing crops, educating them with their rights.
  - Created a Job Recommender System based on the skills present on a resume and the desired job position.

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**Technology / Tools:**  Deep-Learning, Machine Learning, Rasa-Core, Rasa-NLU, Tensorflow, Python3.

## Academic Projects

- **Disaster Management**                                                                                              **Feb 2020 - Jun 2020**

  Developed real-time crisis management, precautions serving web applications to help the people stuck in a disaster by **automated scraping** news from sources, **named entity recognition** for determining disaster, **disaster type classifier** for detecting the type of disaster, and provided **nearby healthcare center** details, safe locations, **One-click-SOS** help.

  **Technology / Tools:** Essentials of machine learning, python, selenium, web scraping, HTML- CSS, Django, Google-Places API

  **Output:** Created moral/reliable application, ranked 1st in the internal Hackathon, reached the National level.

- **Speech Recognition Module for Voice Assistance**                                             **Jan 2020 - May 2020**

  Developed a framework for speech recognition module to convert speech into text. Was successfully able to implement and hyper tune the model to increase its recognitional performance.

  **Technology / Tools:** Deep Learning, Neural Networks, TensorFlow, utilizing AI standards, HTML-CSS, Flask.

  **Output:** We're able to perform successful speech to text conversion with an accuracy of 86.4%.

## Independent Projects

- **Lyrics Generator**                                                                                                    **Apr 2020 - May 2020**

  Created Lyrics Generator to create song lyrics for a given set of input words, using the NLP, LSTM model in Tensorflow.

- **Cat Breed Classifier**                                                                                             **Mar 2020 - Apr 2020**

  Developed a cat breed classifier to detect the breed of a cat as a result of image input,  using the essentials of CNN in Tensorflow.

- **NR-USD Time Series Analysis**                                                                               **Mar 2019 - Apr 2019**

  Performed time series analysis on Indian currency (INR) value compared to USD using Sequence modeling, and LSTM in Tensorflow.

## Leadership

- **Technical head**, Computer Society of India (**CSI**) SFIT - (2019-20) - managed the team to conduct technical events, competitive coding competitions.
- As a **CSI Instructor** SFIT- (2019-20) conducted a workshop on Frontend-development to deliver the knowledge of 'the essentials of HTML5, CSS3, js, and bootstrap' to build a website from scratch.
- **Mosaic Event Organizer,** Technocrats SFIT - (2018-19) **-** organized a technical event for two days fest, managed event publicity, and game workflow with my team support.
- **Co-lead** at 'We can we will' social service firm - (Jul 2019- Dec 2019) - taught children (5-12 years old) at designated centers, and managed the new volunteers in the firm.
- **Technical executive**, ISTE SFIT-(2018-2019) - conducted technical fests, and generated reports.

## Extramural Engagements

- **Avid 'Technical Writer'** on Medium, blogs at (medium.com@mohanqwerty5).
- 5-times **Volleyball Champions**, SFIT-Team in the league of 12 teams organized at SPIT, VIT, Father Agnel, Atharva, Thakur College in the years (2018-20).
- **Contributed art-work** for the Indian Central-Industrial-Security-Force (CISF) magazine (2015-2020).

**Languages:** English**,** French, Hindi**,** Punjabi, and Marathi
**Hobbies:** Space Exploration**,** Volleyball, and Sketching, Movies.