

MANMOHAN DOGRA

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Profile

An adaptable individual pursuing a Bachelor's Degree in CS space. I am a brisk learner, a keen explorer of the AI realm, and a dedicated contributor to the open community of learning. Proficient in effectively building deep learning, models, analyzing situations and outcomes, providing insights. Aspiring for the opportunity to develop skills, use my abilities, and learn new encounters. I believe my endeavor and devotion in the activity will be productive in accomplishing your organization's objectives and goals.

Relevant Work Experience

- **Avid technical writer on Medium in association with Analytics Vidhya.** **May 2020 - Present**
Contributed articles like 'Lyrics Generator with essentials of LSTM and NLP using TF', received positive reviews and 100+ appreciation claps in the first few days, content followers increased by 280% (5 to 14), received appreciation from Analytics Vidhya officials. Frequently posting about the projects done along with my methodologies and intuition. (medium.com@mohanqwerty5).
- **Machine Learning Intern at Blocklogy, Mumbai** **Nov 2019 - Jan 2020**
Created an 'Agricultural Chatbot' to help the farmers with real-life problems using Rasa-NLU and Rasa-Core, faced a lot of dependencies, trigger, and deployment issues. worked along with my team under the guidance of a mentor and successfully implemented it. Created a Job Recommender System based on the skills present on a resume by using ML in python.
- **Frontend Developer at St. Francis Exprove Tourisms, Mumbai** **Aug 2019 - Oct 2019**
Designed the real-world 'Tourism Website' to guide the tourists through the available packages and deals along with the facilities provided using frontend basics and javascript. Increased visitors on the website by almost 17%.

Relevant Projects

- **Lyrics Generator** **Apr 2020 - May 2020**
Created a Lyrics Generator using the NLP, LSTM model in Tensorflow to create song lyrics for a given set of input words. The model bugged with lower accuracy but I was able to preprocess and hyper tune the parameters to increase accuracy by 16.4% (72.3 to 84.2)% and the final loss was 0.8.
- **Cat Breed Classifier** **Mar 2020 - Apr 2020**
Developed a cat breed classifier using the essentials of CNN in TF to get the breed of a cat as a result of image input. Received poor accuracy around 79.0% but was able to increase the performance by hyper tuning the dataset and using image augmentation to get 86.6% accuracy with correctly identifying the breeds.
- **Speech Recognition Module for Voice Assistance** **Jan 2020 - May 2020**
Developed a framework for speech recognition using Neural Networks in Tensorflow utilizing AI standards to convert speech to text. Was successfully able to implement and hyper tune the model to increase its recognitional accuracy by 7% i.e from 77.4% to 84.5%.
- **Time Series Analysis** **Mar 2019 - Apr 2019**
Performed time series analysis on Indian currency (INR) value compared to USD using Sequence modeling, LSTM in TF. Initially, I received relatively high mae(mean squared error) which was further reduced by 93% to (6.7 to 0.3) by hyper-tuning of the parameters.
- **City Fire Department Website** **Aug 2019 - Dec 2019**
Created a website using the essentials of HTML5, CSS3 for frontend, and Oracle as the backend, to report an emergency and alert the brigades for action. Demonstrated the core understanding and presentation skills.
- **Face Detection Module** **Aug 2018 - Dec 2018**
Built a 'Face Detection Module' to recognize the face based on the similarity features of the face in python using the 'OpenCV' library.
- **Library Management System** **Jan 2018 - May 2018**
Created a 'Library Management System' in NetBeans IDE utilizing the essentials of Java for the interface and MySQL for the backend through JDBC.

Education

Aug 2017 - May 2021

Bachelor of Engineering(Computer Science), St. Francis Institute of Technology,
Mumbai University, Mumbai.

C.G.P.A : 8.47

April 2015 - March 2017

XIIth Standard (PCM), Kendriya Vidyalaya Jyotipuram, C.B.S.E Board, Jammu & Kashmir.

Percentage : 79.3%

Technical Skills

Machine Learning, Deep Learning, Data Analysis, Predictive Analysis, Python3, Rasa, HTML5, CSS3, MySQL, C.

Certifications and Research work

- A research paper on '**Automated identification of disaster news using machine learning and natural language processing**' is accepted and remains due for the IEEE conference presentation on (3rd July 2020).
- **Deep Learning** Specialization (*deeplearning.ai*) - Coursera -2020
- **Machine Learning** (Stanford University) - Coursera-2019
- **Tensorflow** in Practice Specialization (*deeplearning.ai*) - Coursera-2020
- **Data structures and algorithms**: ELITE (IIT Madras) - NPTEL-2019

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** conducted a workshop on Frontend-development to deliver the knowledge of the essentials of HTML5, CSS3, js, and bootstrap to built a website from scratch- (2019-20).
- **Co-lead**, 'We can we will' social service firm - (July 2019- Dec 2019)- taught children (5-12 years old) at designated centers, managed the new volunteers in the firm.
- Held the post of **School Captain**, K.V.Jyotipuram - (2016-2017) - increased the event participation by 30%, managed sports events, art competitions, and maintained discipline throughout the session.
- Held the post for **School-Vice-Captain**, K.V.Jyotipuram - (2015-2016) - organized internal exhibitions, increased the participation rate almost by 70% (i.e 17 to 23 teams).

Extra-Curricular

- 5-time **Volleyball** Champions, SFIT-Team in the league of 12 teams organized at SPIT, VIT, Father Agnel, Atharva, Thakur College in the year (2018-19).
- Attended **certified workshops** on Ethical hacking, GRE, augmented reality, and video editing.
- Avid technical **content writer** on 'Medium' community in association with Analytics Vidhya.
- Managed festivals, traditional events as '**Stage and Logistics**' executive-SFIT(2018).
- Contributed my **sketches and artwork** to the Indian Central-Industrial-Security-Force (CISF) magazine.

Active on:

[GitHub](#)

[LinkedIn](#)

[kaggle](#)

[Medium](#)