ABHISHEK|ME19B069

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EDUCATION

Institute	Degree	Timeline	CGPA/%
Bachelor of technology, IIT Madras	Mechanical engineering	2019 – 2023	7.91
Maa, Sarasvati School, Kaithal	12th Standard	2017 – 2018	89.8
Government School, Kaithal	10th Standard	2015 – 2016	86.4

RELEVANT COURSES

- Deep Learning
- Introduction To Data Analytics*
- Probability and Statistics for Data Science
- Introduction to C Programming
- Multivariable Calculus
- Differential Equations
- Series and Matrices
- Machine Learning Specialization, Washington University (Coursera)

WORK EXPERIENCE

Machine Learning Developer Intern, Go Data Insights   Jun 2021 - Aug 2021
- *Project GREEN SCORE*: Built a system with which one can calculate the Greenery Score of an area with longitude, latitude, and radius. Used open street map to fetch the data for the algorithm.
- *Project FIRE COUNT PREDICTION*: Analyzed NASA's fire data from the MODIS satellite. built a fire count prediction system for a region (a longitude, latitude bounding box).
- *Project CRYPTO PRICE PREDICTION*: Built a stock price prediction system. But This is different from general stock price prediction systems because it also considers the effect of current news sentiment and shows its effect on prediction too

Machine Learning Developer Intern, FTS (Failure to Success)   May 2021 - Jul 2021
- During the Internship, two datasets were given to analyze. Both datasets had gases and particulate matter but one had hourly frequency and the other has a daily frequency
- Analyzed the day-wise data to get an algorithm that can calculate AQI from a gaseous composition
- Built an LSTM based time series prediction algorithm on city-by-hour data.

Full Stack Developer Intern, Jivass Technologies   Jun 2021 - Jul 2021
- Worked on ReactJS for frontend and Django for backend, the user database was PostgreSQL Created React Web Application.
- Project Included Dummy Data Creation, Primary Dashboards for Customers, Supervisors (sub admin type role), and Super admin.
- Created Website till alpha phase, as per client demands

Full Stack Developer Intern, Chillitray Technologies   Mar 2021 - May 2021
- Worked on building token and OTP-based authentication systems with sessions.
- Implemented HTTP authorization
- Created API s for sending SMS's, Emails for verifications of accounts. Built different types of media and other types of API's as per needs

PROJECTs (Self)

Image Clustering with K means
- The idea is to create a Image clustering model which can be used to create clusters from large dataset of images.
- If someone is limited by computing resources then this technique can be used for sampling images. so that models can be tested on samples.

Text To Image Generator
- The aim is to convert a written text (like "a blue flying bird") into an image. NLP is used to extract a feature vector from the text description.
- GANs are used to create images from a combination of feature vector and random latent vector.

Deep Convolutional Generative Adversarial Network
- In this project in I have implemented the DCGAN algorithm from its paper. The data pipeline for training the model is designed in such a way that adding new images will not affect others images and their results.
- This is a project in which one can create custom data of images and train the model. After that new similar image can be generated.

HACKATHONS

Deep Learning Hackathon, IIT Madras   Apr 2021
- 2nd Rank
- Deepfake Image classification.
- Developed a convolution architecture with skip connections, interconnection, Depth wise separable convolutions.

Shaastra Hackathon, IIT Madras   Feb 2021
- Object detection, character recognition. completed the solution

Univ- AI Hackathon, IIT Madras   Mar 2021
- Roc-AUC score of 0.869
- Data Augmentations, Feature engineering, classification. Used Stacking of 6 algorithms on top of a neural network.

SKILLS AND KNOWLEDGE BASE

Programming Languages:
- Working With: C++, Python, SQL
- Worked With: Java, HTML, CSS, JavaScript, PHP, Django, React

Data Science Skills:
- Machine Learning, Deep Learning, CNN, RNN, LSTM, GAN

Python Libraries:
- NumPy, Pandas, Matplotlib, Scikit-Learn, TensorFlow

Other:
- Git, Jenkins

POSITIONS OF RESPONSIBILITIES

PR Manager, National Service Scheme, IIT Madras   Mar 2021 - present
- Here working as a PR manager in PR Team of NSS IIT M
- Learning to interact with people of different backgrounds and thinking's

Project Member In SBoard, Electrical club, CFI, IIT Madras* (Not working Currently)   Mar 2020 - present
- Working in project SBoard as a project member in the software module.
- Learning about R-pi, ROS, and Embedded Systems.
- Did research for haptic touch and Ultrasonic feedback

WebOps Coordinator, Mechanical Engineering Association, IIT Madras   Aug 2019 - Apr 2020
- Created templates for websites with a team.
- Improved user interface to give a better user experience

* Currently Working