Omkar Nitin Shinde

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EDUCATION:

The University of Texas at Dallas, Richardson, TX, USA **Aug 21 - Present**
- Master's of Science, Computer Science

Vidyalankar Institute of Technology, Bombay, India **Aug 17- May 21**
- Bachelor's of Engineering in Information Technology, CGPA 9.36/10

SKILLS:

- Programming Languages: Python, R, Java, C, C++.
- Database: MySQL, Oracle SQL, Mongo DB
- Development: HTML5, CSS 3, Bootstrap, JavaScript, Php, jQuery, React.Js, Express.JS, Node.JS
- Frameworks: TensorFlow, Scikit-learn, Keras, Flask, Django, Tableau.

INTERNSHIPS:

BrihanMumbai Municipal Corporation **Mumbai, India**
Full Stack Developer Intern May 20 – July 20
- Worked on the project which included research, understanding the consumer (senior citizen), designing the user interface for web portal and mobile application for providing essential items to the senior citizens during Covid19.
- Developed a delivery dashboard which helped to improve the way to deliver the order, check routes, assign proper drivers to the order and keep the customers updated.

Welingkar Institute of Management **Mumbai, India**
Software Developer Intern Jan 20 – Mar 20
- Developed QR code software for National Level WeBizFest competition, organized at Welingkar Institute of Management, Mumbai. The software helped to reduce the registration operation cycle by **50%**.
- Developed a dashboard which summarized the result and kept the track of competition and its results.

Trivia Software **Mumbai, India**
Python and Data Science Intern Jun 19 – July 19
- Developed student management software involving an exposure to various Python 3.x related technologies and implemented using cx_Oracle for Oracle Database Operations, tkinter for GUI and Beautiful Soup for web scrapping.

PROJECTS:

Weather Prediction using Long Short Term Memory
- Developed a Long Short Term Memory (LSTM) model from scratch without using ML libraries to predict future weather based upon the weather data of the previous days.
- Trained the model using Jena climate dataset provided by Amazon.com.
- The model was trained with 3 hidden layers, 100 epochs and learning rate as 0.1 to generate mean squared error of **0.133**

Social Media Image Caption Generation Using Deep Learning
- Proposed a hybrid system employing the use of multilayer Convolutional Neural Network (CNN), Recurrent Neural Network (RNN) and a Long Short Term Memory (LSTM) to accurately identify and construct meaningful caption for a given image
- Trained the model using Flickr8k and Flickr30k data using Convolutional Neural Network (CNN) as an encoder and Recurrent Neural Network (RNN) as decoder to generate relevant captions.

Success rate prediction of a movie, Based on IMDB Rating
- Predicted movie's success using four classification algorithms: logistic regression, K-nearest neighbors, decision tree and random forest.
- Logistic regression was the best algorithm for classifying movie success as it yielded the highest mean test score as **0.7047**.

PUBLICATIONS:

- **Social Media Image caption generation using Deep Learning** ISSN: 2321-9939 Volume 8 | Issue 4 (IJEDR).
- **Image Caption generation Methodologies** ISSN 2395-0056 Volume 8 | Issue 4 | April 2021 (IRJET).

ACTIVITIES:

- Participated in **Nasa Space App Challenge 2020** and won 7th place in India held on 2nd – 4th October 2020.
- Selected as a **Technical support mentor** at Prin. L.N. Welingkar Institute of Management Development and Research, Mumbai, for **Smart India Hackathon**, organized by MHRD Ministry, Government of India.
- **Presented paper** titled "Social Media Image caption generation using Deep Learning", in International Conference on Advances in Management and Technology conference 2020.