VASUDHA GROVER

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EDUCATION

Indiana University - Data Science   Bloomington, IN.
Masters of Data Science   Expected - May, 2023
- CGPA - 3.6/4.0
- Relevant Coursework –Elements of Artificial Intelligence, Computer Vision, Data Mining, Machine Learning for Signal Processing, Into. to Statistics, Information Visualization.

Vellore Institute of Technology - School of Computer Science & Engineering   Vellore, India.
Bachelor of Technology in Computer Science & Engineering, Minor in Information Security   Graduated - May 2021
- CGPA - 8.47/10.00.
- Relevant Coursework - Artificial Intelligence, Data Mining, Machine Learning, Image Processing, Cyber Security, Applied Linear Algebra, Statistics and Cryptography Fundamentals.

INTERNSHIPS

Voxomos Systems   New Delhi, India.
Data Science Intern   Jan. 2021 – Jun. 2021
- Took charge of developing a face liveness detecting and matching model using Python, **CNN** and **Haar-Cascade** for face verification and comparison.
- Created an ID Card Masking application using Image Processing in **Python, OpenCV, Pixel link, CNN, Django.**
- Built an ID Card Details application retrieve using Image Segmentation, **Attention-OCR models, Django**

Vodafone Idea Limited   Mumbai, India.
Data Analyst Intern   Jul. 2020 – Sep. 2020
- Implemented a sentiment analysis of Twitter Data in **R** programming for understanding customer feedback towards their products and services
- Analyzed more than 10000 Twitter tweets using statistical and advanced analytics tools to create insightful visualizations and analyze performance of their products.

Verzeo   New Delhi, India.
Data Science Intern   May 2020 – Jul. 2020
- Intensively learned about concepts of text analytics and various computer vision algorithms and how to perform object detection using **CNN** in **Python**.
- Successfully implemented a project on Face Mask Detection in **OpenCV**, **TensorFlow** for the current global issue and achieved an accuracy of 97%

Hexxa Geo Systems   Surat, India.
Network Analyst Intern   May 2019 - Jun 2019.
- Configured Firewalls, different UTM devices to connect to ESA servers securely, and VPNs in Cyberoam.
- Performed and deployed live SMTP servers securely and test/audit multi-factor authentication using the server.
- Learned different port scanning techniques and TCP injection attacks.

SKILLS

- **Programming** - Python, R, JAVA, SQL, C/C++, JavaScript, HTML, CSS.
- **Frameworks and tools** – Pandas, Numpy, Tensorflow 2.0, Keras, pyTorch, Scikit-Learn, Tableau, Flask & Django.

ACADEMIC PROJECTS

Song Popularity Prediction   Sep. 2021 – Nov. 2021
- Performed prediction in **Python** to help the music business in gaining understanding for elevating user experience.
- Utilized ensemble learning, advanced feature selection and Neural networks on the million-song dataset for forecasting the hotness of a song.

Image Captioning   Jan. 2020 – Jul. 2020
- Utilized the Flickr8k dataset consisting of 8000 images to generate meaningful captions.
- Successfully implemented by constructing a **CNN**, **VGG16** model for pre-processing of images in **Python**, sequence model for text input followed by an **LSTM** layer, and lastly the decoder model for prediction of captions.
- Incorporated soft attention mechanism and a beam search decoder to improve BLEU score and quality of captions.

Malware Detection using CNN   Feb. 2020 – May 2020
- Detected malware from 25 different malware families from the "Malimg" dataset.
- Responsible for making the **CNN** and **SVM** model using **Python**.

Speech Emotion Recognition.   Jan. 2020 – Mar. 2020
- Learned deep emotion features like pitch and pause to recognize speech emotion and classify them into 6 different emotions using the IMEOCAP dataset.
- Performed a comparative analysis between machine and deep learning models like Random Forest and eXtreme Gradient Boosting; and **MLP** and **LSTM**.