Aakanksha Patil

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EDUCATION

University of Rochester Expected Graduation: Dec. 2022
Master of Science in Data Science *GPA: 3.6/4.0*
Related Courses: Computational Statistics, Database Management Systems, Data Mining, Big Data, Predictive Analysis, Machine Learning.

KLE Technological University Hubli, India Aug. 2016- Jun 2020
Bachelor of Engineering in Electronics and Communication *GPA: 3.7/4.0*
Related Courses: Embedded Linux, Embedded Intelligent Systems, Machine Learning, Deep learning, Image Processing, Automotive Electronics.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C, C++.
Operating Systems: Windows, MacOS, Linux.
Certifications: Samsung PRISM Certificate, Global Innovation and Entrepreneurship DeepLearning.ai, Tools for Data Science.
Tools: Jupyter Notebook, Databricks, MS Excel, MS PowerPoint, GitHub, MATLAB, R-Studio, Tableau.
Skills: Data Analysis, EDA, Hypothesis Testing, Data Modelling and Pipeline, NLP, Data Visualization, Statistical and Predictive Modeling concepts, Machine-learning approaches, Clustering, Classification techniques.

PROFESSIONAL EXPERIENCE

Continental Automotive Components India Pvt Ltd, Bangalore, India Jan 2020- Jun 2020
Computer Vision Intern.

- Synthetic data generation of traffic signs using Generative Adversarial Networks (DCGAN).
- Testing traffic sign detection and classification model on Electronic Drive Unit (EDU).

Samsung R&D Institute, Bangalore, India Aug 2018- May 2019
Samsung PRISM Student

- Emotion Recognition in the wild: Multi-model emotion recognition and classification app capable of recognizing real-time emotions with the help of camera by understanding facial expressions.
- Emotion Recognition on mobile phone: Emotion recognition app capable of classifying 7 emotions which uses Mobilenet_V2 neural network for detection and classification. The architecture was used as it is lightweight and has less computation cost.

Both the projects were a part of academics at KLE Technological University.

ACADEMIC PROJECTS

Classification of COVID-19 tweets

- Trained a Logistic Model capable of classifying whether COVID-19 tweets are fake or real using scikit-learn library.
- The accuracy was compared with different vectorizer and n-gram combinations, the highest accuracy was achieved by TfiD vectorizer at 91.95%

Social Media Sentiment Analysis on Fast Fashion

- Twitter sentiment analysis on tweets related to fast fashion using LDA, M3 inference and VADER sentiment analysis.
- Understand the opinions of users and to analyze the most discussed topics related to fashion industry impacting climate change.

Alert Net: Deep Convolutional - Recurrent Neural Network Model for Driving Alertness Detection.

- Developed a neural network using ResNet and Sequence-to- Sequence model for sleep stage classification of using raw EEG signals for advanced driver assistance system. The proposed architecture of achieved an overall accuracy of 87.92%.
- **PUBLICATION**: Nissimagoudar, P.C., Nandi, A.V., Patil, A. and HM, G., 2021. AlertNet: Deep convolutional-recurrent neural network model for driving alertness detection. International Journal of Electrical & Computer Engineering (2088-8708), 11(4).

LEADERSHIP

- Student Secretary at KLE Technological University, Treasurer at School of Electronics and Communication at KLE Tech.
- Student Ambassador of Indian Road Safety Campaign KLETECH- BOSCH Chapter.
- Student coordinator of 7th National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics.