Raghav Agarwal

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Objective

My long-term objective is to start a fruitful career as a data scientist. I'm devoted to using my expertise to harness the power of data for creative solutions and to contribute to cutting-edge technical breakthroughs as an enthusiast in this professional capacity.

Education

Vellore Institute of Technology, Amaravati **Aug 2020 – Jul 2024**
B.Tech in Computer Science *GPA: 8.81*

Technical Skills

Languages: Java, Python, C++
Technologies: Deep Learning, Machine Learning, Computer Vision, Data Analytics, Data Science, Audio Processing, SQL, Natural Language Processing
Libraries & Tools: Tensorflow, Keras, Scikit-learn, librosa, Opencv

Experience

Fox Trading **Jan 2022 – Mar 2022**
ML Intern
* Developed a Gmail spam filter to avoid user fall in any cyber attack
* Carried out data science research that resulted in the creation of a diabetes diagnosis system
* Built a machine learning system that can provide light on the connections between iris species

Personifwy **Apr 2022 – Jun 2022**
AI Intern
* Worked with a group of AI experts to create an AI product that could successfully recognize objects using CNN
* Created a handwritten digit recognition system driven by AI, when tested against the MNIST dataset was 98% accurate
* Built an NLP model that can extract key information from news articles, such as the title, date, and main content to determine their veracity

IEEE Student Chapter **Sep 2022 – Present**
Technical Team Lead *VIT-AP*
* Organized and led a team to successfully host the IEEE AISP 2023 conference
* Managed the activities of the IEEE student branch in my capacity as Technical Lead

Google Developer Student clubs **Sep 2022 – Present**
Machine Learning Team *VIT-AP*
* Developed and delivered a machine learning Roapmap and workshop inside University
* Wrote and published many conference papers on machine learning during the journey

Projects

Diabetic Retinopathy | *Keras, Sklearn, Matplotlib Git* **Jan – 2023**
* Developed a hybrid model to extract image features from custom CNN and check to classify 5 classes using several ML classifiers.
* Highest Test accuracy was obtained by CNN-KNN combination with 90% accuracy.

Music Genre Classification | *Librosa, Tensorflow, Sklearn Git* **Nov 2022**
* Made use of Librosa library to extract MFCC, stored in json file.
* Extracted MFCC is fed into the RNN-LSTM model to predict the music genre.

Sports Celebrity Image Classification | *Opencv, Matplotlib, Sklearn Git* **Jul 2022**
* The position of eyes and Faces were detected using cascade classifier.
* The Face area is cropped and fed into 3 different hypertuned models.
* Achieved the highest accuracy of 84 with the SVM classifier.

Publication

Jul 2023 | *Fuzzy and Machine Learning based Multi-Criteria Decision Making for Selecting Electronics Product*
* Published in ICST Transactions on Scalable Information Systems, Q3-Journal with Web of Science and Scopus of index having 1.3 impact factor.
* Arrived with a more precise knowledge of the procedure for choosing a laptop in accordance with the user's requirements.

Feb 2023 | *Ensemble & Hybrid Model for Chronic KidneyDisease Classification with Machine and Deep Learning Approaches*
* Published in International Journal For Innovative Engineering and Management Research with Crossref indexing having 7.812 impact factor.
* Approach predicted chronic kidney diseases for a particular area and community using a variety of complex medical data.

Certifications

Certificate 1| *AI for Everyone*
Certificate 2| *Machine Learning Specialization*
Certificate 3| *Natural Language Processing Specialization*
Certificate 4| *Deep Learning Specialization*