



# Raghav Agarwal

- Jun 21, 2002
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## Skills

- JAVA, PYTHON, C++
- Deep Learning
- Machine Learning
- Computer Vision
- Data Analytics
- Data Science
- Natural Language Processing
- Audio Processing
- Structured Query Language
- Statistical Analysis

## Libraries and Tools

- Tensorflow
- Scikit-learn
- Natural Language Toolkit
- Librosa
- Matplotlib
- Numpy
- Pandas
- OpenCV

## Certificates

- Google Advanced Data Analytics
- Deep Learning Specialization
- Machine Learning Specialization
- Natural Language Processing

## Education

- 2020 – 2024 **B.Tech in Computer Science Engineering** Vellore Institute of Technology, AP  
8.79/10 CGPA
- 2020 **Inter (CBSE Board)** Krishna International School, Aligarh  
86%, PCM with Computer Science
- 2018 **High School (CBSE Board)** Krishna International School, Aligarh  
92%

## Internship Experience

- Apr – Jun 2022 **AI Intern** Personifywfy  
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.
- Jan – Mar 2022 **ML Intern** FoxTrading  
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.

## Project

- Jan 2023 **Diabetic Retinopathy | Keras, Sklearn, Matplotlib** Github  
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 with 90% accuracy.
- Nov 2022 **Music Genre Classification | Librosa, Tensorflow, Sklearn** Github  
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.
- Jul 2022 **Sports Celebrity Image Classification | Opencv, Matplotlib, Sklearn** Github  
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.

## Journals

- 23 Oct 2023 **A Novel Hybrid System Of Detecting Brain Tumors in Mri** IEEE ACCESS  
Q1 Journal, Indexing: UGC Care, Web of Science, Scopus
- 2 Oct 2023 **Skin Disease Classification Using CNN Algorithms** EAI PHAT  
Q3 Journal, Indexing: Scopus
- 4 Jul 2023 **Fuzzy and Machine Learning based Multi-Criteria Decision Making for Selecting Electronics Product** EAI SIS  
Q3 Journal, Indexing: Web of Science, Scopus
- 6 Feb 2023 **Ensemble & Hybrid Model for Chronic KidneyDisease Classification with Machine and Deep Learning Approaches** IJIEMR

## Honors & Patents

- 6 Oct 2023 **SYSTEM AND METHOD FOR DETECTING BRAIN TUMOUR IN MEDICAL DIAGNOSTIC IMAGING DATA** Patent  
Application Number: IN Application 202341062654
- 6 Oct 2023 **SYSTEM AND METHOD FOR ORGAN ABNORMALITY DETECTION** Patent  
Application Number: IN Application 202341062427

## Volunteering

- 2022 - 2023 **Technical Team Lead** IEEE Student Chapter, VIT-AP  
Led a team to successfully host AISP Conference in VIT-AP University
- 2022 - 2023 **Machine Learning Core Team** Google Developer Student Club, VIT-AP  
Organized AI/ML Roadmaps and Workshop Publicly.
- 2021 - 2022 **Co-lead of Project & Research Team** ACM Student Chapter, VIT-AP

## Conferences Attended

- 24 - 26 Oct AIHC 2023 Bratislava, Slovakia
- 27 - 28 Jul 2nd EAI ICISML 2023 Odisha, India
- 10 Feb NCRTIT 2023 AP, India
- 16 - 17 Dec EAI ICISML 2022 Hyderabad, India