Jawahar C

LinkedIn | GitHub

Location: Chennai, India
Email: jawahar.16.09.09@gmail.com | Mobile: (+91)6374259405

EDUCATION

Amrita Vishwa Vidyapeetham Chennai, India
B.Tech in Computer Science With Specialization in Artificial Intelligence *Jul 2020 – Present*
CGPA: 8.36/10

Narayana E-Techno School Chennai, India
Class XII *Jul 2019 - Mar 2020*
Percentage: 86%

RESEARCH EXPERIENCE

AG-ResNet for Multi-class Bone Marrow Cell Classification Jan 2023 - Apr 2023
Torch, FastAPI *Github*

- Developed AG-ResNet, a novel method combining CAM and PAM with ResNet50, achieving 97.13% accuracy in bone marrow cell classification.
- Outperformed previous models with a precision score of 0.95 and a recall score of 0.93, indicating the model's superior performance in identifying hematologic diseases.

Sleep Apnea Detection Jan 2021 – May 2021
Tkinter, OpenCV *Github*

- Designed a service to track the Region of Interest and automatically detect sleep apnea (ROI).
- Added Python scripts to experiments to run them under various testing situations to show how accurate and effective they were, achieving a 93% accuracy rate.

PROJECTS

Beat-Blending: Song Remixing using Siamese neural network Github
Tensorflow, Keras

- Produced spectrograms using the input song's data. Captured musical features, contrast and compare them with related features.
- Employed a Siamese neural network to perform remix by mapping similar features. Generated remix that can close the current gap in the caliber of automated mixing.

Metabolic Pathway Class Prediction Github
Tensorflow, Keras

- Used Graph Convolutional Networks (GCN), a hybrid graph-based deep learning model, to predict the classes of molecules' metabolic pathways
- Directly extracted significant shape characteristics from input SMILES representations using RDKit.
- Contributed to the Multi-Classification of compounds into several pathway classes, demonstrating innovation by attaining 97% accuracy.

TECHNICAL SKILLS

Languages : Python, Java, C/C++, SQL(MySQL), JavaScript, (HTML/CSS), MATLAB.
Library/Framework : Tensorflow, PyTorch, OpenCV, Keras, React, Flask.

CONTRIBUTIONS

- Coordinator at Neuronix, a technical club. Mentored students, organized national-level hackathons, symposiums, and other technical activities.
- As a volunteer with Bhumi NGO, I helped 39 parents submit RTE applications as part of my social responsibility activities, securing the admission of 16 children in year 2021.