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Raisa Chatterjee

Bachelor of Electrical Engineering, Jadavpur University

My Projects

QSAR Tool

- ❖ The tool is used to predict the chemical properties of a compound given its smiles formula.
- ❖ An AI tool under the supervision and guidance of Dr. Avinash Misra, in coordination with Gokul Achari who handled the Deep learning algorithms.
- ❖ Handled the front-end and back-end.
- ❖ Integrated the tool using flask framework. Flask-SQLALCHEMY was used as database.
- ❖ Used Flask-login for handling the sessions of the user. Implemented timed sessions for users.

My Smart Assistant

- ❖ It wishes the user. Browses websites such as google, youtube, opens applications such as powerpoint and others as per the vocal inputs provided.
- ❖ Serves as an audio calculator as well.
- ❖ It can send an email, if the body and the email address of the recipient is provided vocally.
- ❖ A Smart assistant made using the modules of pyttsx3, speech recognition, datetime and others.

A Mask Detector and Short Analysis of Optimization Algorithms

- ❖ The detector is used to detect masks in real-time video streams.
- ❖ A short analysis on stochastic optimization algorithms has also been done.
- ❖ A comparison of the optimizers like Adam, Adagrad, RMSProp has been done and the highest accuracy has been obtained in case of Adam.
- ❖ Made using Python, Keras, Tensorflow, MobileNet and other Modules.
- ❖ Transfer learning has been applied.

Education

- ❖ 10th ICSE (2016) : Passed from Steel Carmel Convent School Durgapur with 95.6%
- ❖ 12th CBSE(2018) : Passed from DAV Model School Durgapur with 94.8%
- ❖ BE in Electrical Engineering from Jadavpur University, Average GPA-8.7

Job Experience

- ❖ Web Development Intern at Growdeatech Pvt. Ltd. (April 21-July 21)
- ❖ Computer Science Subject matter expert at Chegg

Languages Known

Python, C++, SQL,

JAVA, C Tensorflow, Pytorch,

Matlab, HTML, CSS

Skills

Competitive Coding (6-star on Hackerrank)

Python Flask

Web Development

Machine Learning

Web Designing

Extra Curriculars

Debates

MUNs

Badminton

Poetry

Video-Editing