Mukesh K

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EDUCATIONAL BACKGROUND

Bachelor of Technology
August 2020 to Present
Amrita Vishwa Vidyapeetham
Tamilnadu, India
CGPA: 9.17

RESEARCH WORKS

A VAE-GAN Based Model for Ligand Designing
November 2021 to Present
Built a deep learning based-model called VAE-GAN to help in designing ligands to produce chemical compounds to help in drug repurposing work.

SKILLS

- Machine Learning, Deep-Reinforcement Learning
- Data Science, Big Data
- Django, Flask, ReactJS, Flutter
- Python, C++, Java, R, MATLAB

PROJECTS

Metabolic Pathway Prediction
December 2021 | GitHub | Webapp
Built a hybrid graph-based deep learning model called Graph Convolutional networks (GCN) to predict the metabolic pathway classes of the molecules from KEGG database.

MBTI Indicator-Based Personality Type Prediction
November 2021 | GitHub | Webapp
A personality prediction project based on 16 MBTI personality type indicators. The ML model uses Logistic Regression for classification and overcomes the problem of class imbalance with undersampler.

Mutation Rate Calculation with LSTM
August 2021 | GitHub
In this project, a recurrent neural network based model called Long Short Term Memory (LSTM) has been applied to predict the future mutation rate of COVID-19. The model was successful in predicting future mutations in a patient.

Sleep Apnea Detection
May 2021 | GitHub
This project proposes a robust method for detecting sleep apnea and keeping track of the region of interest by using OpenCV's object tracking algorithm.

CERTIFICATIONS

Coursera:
- Machine Learning by Stanford University
- R Programming by Johns Hopkins University
- JavaScript, jQuery and JSON by University of Michigan