Yuvraj Talukdar

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Interested in working on bleeding edge technology, experienced programmer, have worked on several complex projects.

EDUCATION

[2021-2023]

M.TECH INFORMATION SECURITY, University of Hyderabad, Hyderabad (Telangana)

- SGPA Sem 1- 9.86
- SGPA Sem 2- 9.27

[2016-2020]

B.TECH COMPUTER SCIENCE & ENGINEERING, SRM INSTITUTE OF SCIENCE & TECHNOLOGY,CHENNAI

- Percentage- 78.23%

[2015-2016]

HIGHER SECONDARY, FACULTY HIGHER SECONDARY SCHOOL [CBSE]

- Percentage – 65%

[2014]

HIGH SCHOOL, DON BOSCO SENIOR SECONDARY SCHOOL [CBSE]

- Percentage – 79.8%

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1. Classifier software using neural network and LP solver Classifier software using neural network and LP solver

IN SW-12271/2019 · Issued Jan 3, 2019

PUBLICATIONS

1. **A Novel approach for Training Neural Network using Linear Programming**
   Published in- International Journal of Advanced Science and Technology
   Link- http://sersc.org/journals/index.php/IJAST/article/view/8621

PROJECTS

1. **OSIRIS:- Open Source Information Research and Intelligence System**
   OSIRIS is an open source app written in JS and C++ using electron for the body, ReactJS for the frontend and C++ in the backend for storing and researching on events or relations.

Key feature:-
1. It stores node and relations and creates a graph out of it.
2. Database created by OSIRIS is encrypted using AES.
Link- https://github.com/YuvrajTalukdar/OSIRIS

2. Non-Backpropagation Neural Network

This is an entire new kind of neural network which replaces gradient descend and backpropagation algorithm with simplex algorithm alone with a novel architecture.

Few advantages of this algorithm -

• Provides great accuracy without the need of training of huge datasets.
• This algorithm needs to be run only of 1 iteration.
• The algorithm is less computationally complex compared to current neural networks.
   Link- https://github.com/YuvrajTalukdar/Non-Backpropagation-Neural-Network

3. Modified sobel edge detector version 1
It is a layer above the sobel edge detection algorithm which further enhances the results from the sobel edge detector.

 Few advantages of this algorithm-
• It turns the output of sobel edge detector into a binary image with all the relevant edges shown.
• It increases the clarity of the edges detected using sobel edge detector while reducing the noise.
Link- https://github.com/YuvrajTalukdar/modified-sobel-edge-detector

4. Modified sobel edge detector version 2

This is an improvement of version 1, which has the further improves the edge detection ability of the algorithm.

Few advantages of this algorithm-
• It delivers good performance on computer generated images which has fuggy borders.
• It can detect edges which are soles significant that they are not properly detected by the sobel edge detector itself.
Link- https://github.com/YuvrajTalukdar/modified-sobel-edge-detector-version2

5. FileCrypt & FileCrypt Native
FileCrypt is a flutter based android application which helps you to securely encrypt your files in a value. FileCrypt Native is the same app but written in java and is much faster than Flutter version.
FileCrypt (Flutter) Github Link:- https://github.com/YuvrajTalukdar/FileCrypt
FileCrypt Native Github Link:- https://github.com/YuvrajTalukdar/FileCryptNative
FileCrypt Native PlayStore:-
https://play.google.com/store/apps/developer?id=Yuvraj+Talukdar

6. **Expense Monitor 2**
   This is an android app written in Kotlin for keeping track of daily expenses.

   Few features of the app-
   • It Stores the daily expense data according to custom made category and can generate a monthly report of the expenses.
   • It can export the expense data to a spreadsheet file which can be accessed using spreadsheet application.
   • It has syncing feature which allows you to sync you expenses across devices.
   • It helps you perform detailed analysis you your monthly expenses.
   Link- https://github.com/YuvrajTalukdar/ExpenseMonitor

KEYS SKILLS

•Computer Vision •Image processing •Parallelization and multithreading •Desktop App development using web technology •Android Development •Data Structures and Complex algorithm designing •Memory Leak Analysis •Data Analysis •Machine Learning •QT GUI development

TECHNICAL SKILLS

- **Languages**
  C++, Python, Java, Kotlin, Dart, JavaScript, MySQL,
- **Tools/Frameworks**
  ReactJS, ElectronJS, OpenCV, scikit-learn, Flutter, GCC, GDB, Valgrind, cmake, QT, STL, SQLite, Fire Base, git and github, gmp, boost, CUDA, cryptopp, visjs, QT

EXPERIENCE

1. **Pro Accounting Solutions (September 2021)**
   Was hired for working on java based android app and implemented some extra features and improved existing ones.
2. **Aim2Excel (October 2021)**
   Was hired for improving the UI of a Flutter based android application.
3. **Pro Accounting Solutions (November 2021)**
   Was re-hired for adding some extra features on the app I worked previously on September internship.

LINKS
- LinkedIn Profile:// Yuvraj Talukdar
- GitHub Profile- https://github.com/YuvrajTalukdar