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Navid Anjum Chowdhury

About Me

I'm self-taught problem solver. I love to experiment a lot with new technology and new Ideas. That's how I have found some of my projects and problems. I am very active and energetic to reduce any sort of waste mostly time and energy.

Education

North south University	BSc in Computer Science & Engineering
Milestone College	HSC GPA: 5.00(2013)
Milestone College	SSC GPA: 5.00(2011)

Skills:

Programming:
Java, C, C++, C#, Python

Markup & scripting language:
HTML5, CSS , JavaScript , bootstrap

Database:
Oracle , MySQL , MS SQL , MongoDB

Framework & Library:
- Tensorflow, PyTorch, Keras
- OpenCV , Matplotlib , SciPy , NumPy , pandas
- ASP.NET , MVC , Django
- Arduino

Graphics:
OpenGl , UnReal engine , Tikinter , Qt5

Projects

- **Virtual trail room:** This project use augmented reality technique, utilize open computer vision library and neural network to give similar experience like Facebook mask but for dress and glass.
- **A Fuzzy Logic Approach to Predict the Popularity of a Presidential Candidate:** This project was also published as a paper in "Studies in Computational Intelligence" under springer. https://doi.org/10.1007/978-3-319-76081-0_6
- **Creating new design from popular designs** : This project was tested for chairs but same set of code can work on any design but for 3d geometrical structure it struggle a lot so its not preferable for those case. This done using Deep Convolutional Generative Adversarial Networks.
- **Game AI Engine**: Citius Invadears game engine rebuilt using Genetic Algorithm.
- **Song Lyric Generator:** Build using LSTM using numpy only.
- **Bad Usb** : A penetration testing device build with digispark(Arduino) which can install any software, hijack any file/folder/drive with searching, install malware/ run a script and can be used as a key logger for windows platform without visual distraction.
- Implementing Deep Q Learning algorithm as an arcade game player.
- Analysis virus growth in human body with or without drug (Python)
- Finding most profitable place to set up restaurant by analyzing given data using linear regression. (MATLAB)

Tools:
◦ MATLAB
◦ Eclipse, visual studio, pycharm

Training

Microsoft .NET

Topic covered: .Net, MS SQL , Azure, Universal Windows app and MVC

Direction: 6month(300hr)

Organization: LICT

- Handwriting recognition using both of the logistic regression and Neural network
- Image compression with K-mean clustering
- Image dimension reduction and recovery using Principal Component Analysis
- Twitter sentiment analysis(Python)
- File compression (text)
- Ocean wave simulation with Gerstner Wave function (Using unreal engine)
- Restaurant, Office, customer management system.
- OpenGl small projects without using library functions.
- Web and android based information directory for Bangladeshi parents having autistic child

Workshop (As instructor):

- **Arduino for starter:** I was assistant instructor of this workshop which was organized by CSE club on 2015 in North South University organized by CSE club on 2015. We have covered up to PID controller for line following robots.

- **Bioinformatics:** I have been an assistant instructor of this workshop which was organized by pharmacy Department of North South University. I was working under Dr. Ahsanur Rahman. I was assigned for hands on experiment on the lab for genome analyses , pattern recognition and experimenting different effect of medicine on virus.
http://acmsc.ece.northsouth.edu/workshop-on-bioinformatics/

Courses worth mentioning:

- Fuzzy system (NSU)
- Data mining (NSU)
- Artificial Intelligence (NSU)
- Machine learning (In Coursera by Andrew Ng)
- Artificial Intelligence (In Udacity Sebastian Thurn)
- Artificial Intelligence on robotics (In Udacity Sebastian Thurn)
- Deep Learning (DeepLearning Foundation in Coursera by Andrew Ng)
- Computer Graphics (NSU)