Turja Kundu

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Research Interests

Artificial Intelligence, Machine Learning, Cyber Security, Data Privacy, Data Mining

Education

Bangladesh University of Engineering and Technology Dhaka, Bangladesh

B.Sc in Computer Science and Engineering CGPA:3.40 Thesis: NAT Traversal Over VoIP *June. 2007 – March 2012*

Experience

Assistant Director(Information Technology) Feb 2017 – Present

ASAI Management Service Ltd *Dhaka, Bangladesh*

- Work on transforming a desktop-based micro finance banking solution to real time web based solution
- Develop internal framework for well manageability of code and reduce time effort for quick development & delivery solution according to requirements

Software Engineer Aug. 2015 – Jan 2017

Relisource Technology *Dhaka, Bangladesh*

- Worked on a distributed service oriented system with WCF, WPF, Windows Services and a web application to control the distributed system.

Software Engineer April 2012 – July 2015

Mir Technology *Dhaka, Bangladesh*

- Research and development of back-end of VoIP Application, Developed a tunneling solution by adding a layer of communication over SIP and RTP protocol
- Developed call routing service for Soft Switch. Worked on IVR services.Developed Shell script to prepare environment and deploy Web application

Personal Projects

Binary and multi class Image classification | *Python,Numpy, TensorFlow, Keras, Scikit-Learn*

Problem Statement: Design and Implementation of Deep Neural Network in order to classify binary and multi-class image data sets.

Used Methodology: logistic regression classifier,shallow Neural Network, Deep neural network, Deep Convolutional Neural Network and different types of weight and bias initialization methods

Evaluation: Get accuracy of 90 percent for Cats and Dogs Data set and 92 percent accuracy for Signed Data set

Spam E-mail classification | *Python, Numpy, TensorFlow, Scikit-Learn*

Problem Statement: Spam E-mail classification using traditional Machine Learning and Deep Learning methods

Used Methodology: SVC, RFC, Logistic Regression, LSTM

Evaluation: LSTM performed better with Enron Data set. Provided F1 score .975; Precision .974; Recall .976

Online Courses

- Deep Learning, a 5-course specialization by deeplearning.ai on Coursera
- Machine Learning by Stanford University on Coursera
- Cybersecurity specialization by University on Maryland on Coursera

Scholarship and Awards

- Dean's List Award for brilliant result for 2nd year during B.SC. in BUET
- Education board scholarship for excellent result in secondary school certificate exam

Technical Skills

Languages: C/C++, Java, Python, C# , MSSQL, MySql, JavaScript, HTML/CSS

Frameworks and Tools: Node.js, WCF, WPF, ASP.NET, Struts, TensorFlow, BSD Socket API, Wire-shark, kali linux

Libraries: Pandas, NumPy, Matplotlib, Keras, Scikit-Learn