Susanta Biswas

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EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY

B.Tech in Computer Science
Expected June 2018
Durgapur, West Bengal
Cum. GPA: 8.72 / 10.0 (7th Sem)

KENDRIYA VIDYALAYA

High Secondary | CBSE
Grad. March 2014 | Kachrapara, W.B
91.6 %

KENDRIYA VIDYALAYA

Secondary School | CBSE
Grad. March 2012 | Bagdogra, W.B
CGPA: 10.0 / 10.0

LINKS

Github:// susantabiswas
LinkedIn:// susantab
Quora:// Susanta-Biswas-9

RELEVANT ONLINE COURSEWORK

Coursera deeplearning.ai

- Sequence Models
  Grade: 100.0%
- Convolutional Neural Networks
  Grade: 100.0%
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization
  Grade: 100.0%
- Structuring Machine Learning Projects
  Grade: 100.0%
- Neural Networks & Deep Learning
  Grade: 100.0%

Coursera Stanford University

- Machine Learning
  Grade: 100.0%

TECHNICAL SKILLS

MACHINE LEARNING

• Scikit-learn• Keras• Tensorflow• Pandas• Numpy•

PROGRAMMING

Experienced:
C++ • C • Python
Familiar:
C# • Octave • .NET• MySQL• Flask•

EXPERIENCE

COMPLEX NETWORKS RESEARCH GROUP, IIT KHARAGPUR

Summer Intern
May 15th, 2017 – June 30th, 2017 | Kharagpur, W.B

- Word Prediction using n-gram Probabilistic Model
- Created word level Language Models for doing word prediction using n-gram Probabilistic Model.
- Incorporated and implemented Interpolation and backoff models with Knesser Ney, Good Turing smoothing methods for enhancing word prediction accuracy.

SELECTED PROJECTS

REALTIME FACIAL RECOGNITION SYSTEM

Keras | OpenCV | CNN
Developed realtime Facial Recognition system using Siamese Neural network. The model generates facial encodings for identifying users.

LANGUAGE TRANSLATION USING NEURAL MACHINE TRANSLATION | Keras | Machine Translation

Sequence to sequence model for Language translation from English to French. This model uses a sequence to sequence Encoder-Decoder network with LSTM cells.

TRIGGER WORD ASSISTANT | Keras | Speech

Developed a Voice based assistant application that can executes task on detecting the trigger word from the user voice. Uses a Neural Network with Gated Recurrent Units (GRU) for Trigger Word detection.

EXPRESS PHRASES USING EMOJI | Keras | LSTM

Associates English phrases with appropriate Emoji. Using a deep LSTM network the model associates an English input sentence with an emoji.

NEURAL DATE TRANSLATION | Keras | Machine Translation | Attention | Encoder-Decoder

Developed a model that can translate a conventional Human readable date to machine readable date format(YYYY-MM-DD). Developed using sequence to sequence encoder-decoder network with Attention with LSTM units.

TEXT ARTICLE GENERATOR | Keras | Text | Language Model

Text Article generation using LSTM network. It uses a Character level Language model implementation for the sequence generation task.

WORD ANALOGY | Keras | Word Embeddings

Finding word analogies using GLoVe word Embedding. In the word analogy task, we find 'd' such that "a is to b as c is to d". For example, 'boy is to girl as king is to queen'.

LIVE HTML EDITOR | .NET | C#

Developed an Editor for Windows Desktop that can show the live web preview of the HTML code being written on the side Pane Window.

ACHIEVEMENTS

- Secured 51st rank in Hackerearth Deep Learning Challenge 2.
  Hackerearth Username: susanta1 13, 2017 - Jan 31, 2018