

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 DEEPEARNING.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: 96.1%

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](#) **DEC 13, 2017 - JAN 31, 2018**