

Susanta Biswas

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EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY DURGAPUR

B.TECH IN COMPUTER SCIENCE
Grad. May 2018 | Durgapur, W.B
Cum. GPA: 8.80 / 10.0

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](#)

TECHNICAL SKILLS

MACHINE LEARNING

• Scikit-learn • Pandas • Numpy

DEEP LEARNING:

• Keras • Tensorflow

PROGRAMMING

Experienced:

• C++ • C • Python

Familiar:

• C# • Octave • .NET • MySQL • Flask

RELEVANT ONLINE

COURSEWORK

COURSERA IMPERIAL COLLEGE LONDON

• Mathematics for Machine Learning:
Linear Algebra

COURSERA DEEPLARNING.AI

• Sequence Models
• Convolutional Neural Networks
• Improving Deep Neural Networks
• Structuring Machine Learning Projects
• Neural Networks & Deep Learning

COURSERA STANFORD UNIVERSITY

• Machine Learning

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 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

IMAGE SUMMARIZATION | CNN | RNN | KERAS

Developed a model that can summarize the contents of an image in English Text. The model uses a CNN-LSTM neural architecture for generating captions for the image.

REALTIME FACIAL EMOTION ANALYZER

CNN | OPENCV | KERAS

Developed an application that can detect facial emotions in realtime using webcam. Displays Emoji in realtime for current mood.

FACIAL KEYPOINTS REGRESSOR | CNN | KERAS

Developed a model that can find 15 different facial landmarks on human face. The model regresses facial keypoints for landmark detection.

REALTIME FACIAL RECOGNITION SYSTEM

CNN | OPENCV | KERAS

Developed a realtime facial recognition system using Siamese Neural network. The model generates facial encodings for identifying users.

PARTS OF SPEECH TAGGER | NLP | RNN | KERAS

Developed a model that can find the different parts of speech in an English sentence. The model uses a Bidirectional LSTM network.

LANGUAGE TRANSLATION USING NMT

NLP | NEURAL MACHINE TRANSLATION | KERAS

English to French Language translator using a sequence to sequence model. The model uses an Encoder-Decoder network with LSTM cells.

TEXT ARTICLE GENERATOR | NLP | LANGUAGE MODEL | KERAS

Developed a neural LSTM model for text article generation using a character level Language model.

LIVE HTML EDITOR | .NET | WINDOWS FORM APP | C#

Developed an Editor for Windows Desktop that can show live web preview of the HTML code.

ACHIEVEMENTS

- Secured **23rd (top 9%)** rank in Caavo Computer Vision hiring challenge on Hackerearth.
Hackerearth Username: [susantab](#) **APR 15, 2018 - APR 22, 2018**
- Secured **51st (top 7%)** rank in Hackerearth Deep Learning Challenge 2.
Hackerearth Username: [susantab](#) **DEC 13, 2017 - JAN 31, 2018**