

# Debjit Paul

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## Education

2014–Present	<b>MSc. Computer Science</b> , <i>Saarland University</i> , Saarbrücken, Germany, Grade- Yet to be given.
Thesis	Multitasking Learning with unreliable labels
Supervisors	Prof.Dr.Dietrich Klakow
Description	In recent times neural networks are producing impressive results due to the presence of large data sets. However, a common known problem in classification task is unreliable labels, due to artificial annotators, human annotation mistakes. With the increase in size of training data, neural network can outperform several classical Machine Learning algorithms. This thesis explored how to handle un-reliable labels for Big data and how to clean the data while training a Single task Neural network and also Multi-task Neural network.
Concept	RNN(BiLSTMs), Expectation Maximization Algorithm
2010–2014	<b>B.Tech in Computer Science</b> , <i>Guru Nanak Institute of Technology</i> , Kolkata, India, Grade- 8.73/10.
Thesis	Improved Algorithm for Human and non Human Object Detection

## Experience

Oct.2016–	<b>Research Assistant</b> , <i>Foundation of Exact Algorithm</i> , Saarland University.
Nov.2016	<ul style="list-style-type: none"><li>○ Programming tasks for the organization of the programming challenge (<a href="https://pacechallenge.wordpress.com/track-a-treewidth">https://pacechallenge.wordpress.com/track-a-treewidth</a>) PACE. The goal is to generate instances to be used in the challenge. The project code : <a href="https://github.com/axeven/hiwi-pace">https://github.com/axeven/hiwi-pace</a></li></ul>
Nov.2015–	<b>Research Assistant</b> , <i>Machine Learning Group</i> , Saarland University.
Feb.2016	<ul style="list-style-type: none"><li>○ Crafted Algorithms using Python to filter data (Arxiv dataset) collection results</li><li>○ Concept utilized are Natural Language Processing, Prepossessing text data.</li></ul>
April 2015–	<b>Student Research Assistant</b> , <i>Information and Services Systems</i> , Saarland University .
July 2015	<ul style="list-style-type: none"><li>○ Developing features in OntoUML using Java Eclipse;</li><li>○ Designing Information Systems based on Conceptual Models in Protege</li></ul>

## Selected Project

Topic	Bidirectional Long-Short Term Memory(RNN) Tagger
Description	In recent times Bidirectional long short-term memory (BiLSTMs) networks has proven success for several NLP sequence task such as POS-tagging, NER tagging and Chunking. Implemented a BiLSTMs tagger with word and unicode byte embeddings (polygot).
Topic	Pre-Processing and NLP Tagger Tool
Description	Transforming a raw text data into CONLL format NLP tagging file. Github: ( <a href="https://github.com/debjitpaul/Pre-processing-and-NLP-Tagger">https://github.com/debjitpaul/Pre-processing-and-NLP-Tagger</a> )

## Technical skills

Language	Python, R, Shell Scripting, Java, C, Matlab
Concepts	Machine Learning , Statistical Learning, Data Mining
Tools	Pycharm, word2vec, Tensorflow, scikit-learn, Dynet, Standford CoreNLP, Theano, Eclipse, Matlab

## Course Work

Machine Learning, Neural Networking, Artificial Intelligence, Statistical Learning, Convex Analysis and Optimization, Data Mining and Matrices, Topics Algorithm in Data analysis, Statistical Natural Language Processing, Image Processing and Computer Vision

## Publication

Title	<b>Numerical Comparison of multi-step iterative methods for finding roots of non-linear equations</b> , <i>International Journal of Mathematics Trends and Technology- Volume4 Issue 8-September 2013 [ISSN: 2231-5373]</i> .
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## Languages

English	<b>Proficient</b>
German	<b>Basic</b>
Bengali & Hindi	<b>Native</b>

## Hobbies

- Playing Football
- Playing Cricket
- Photography

## References

Name	Prof.Dr.Dietrich Klakow
Designation	Head of Group, Spoken Language System, Saarland University
Contact	dietrich.klakow@lsv.uni-saarland.de

## Declaration

- I hereby declare that all the details furnished above are true to the best of my knowledge and belief