

# Deeksha Doddahonnaiah

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## EDUCATION

**Northeastern University**, Boston, MA      **GPA: 3.6/4.0**      September 2017 - Present  
College of Computer and Information science      Expected Graduation: August 2019  
*Candidate for Master of Computer Science, specializing in AI*  
Related courses: Information Visualization, Natural Language Processing, Machine Learning, Unsupervised Data Mining

**Sapthagiri College of Engineering(VTU)**, Bangalore, India      September 2012- June 2016  
Bachelor of Engineering, Computer Science  
Related courses: Java, Data Structures and Algorithms, Database Management Systems

## TECHNICAL KNOWLEDGE

<b>Languages:</b>	R, Python, Java, Javascript, C
<b>Tools &amp; IDE:</b>	RStudio, tmux, Vim, GitHub, Anaconda, Jupyter, PyCharm, Matlab
<b>Libraries:</b>	dplyr, tidyverse, ggplot2, D3, Bioconductor, sklearn, numpy, pandas, nltk, gensim
<b>Frameworks:</b>	tensorflow, keras, Flask, Django

## WORK EXPERIENCE

**Khoury College of Computer Sciences**, Northeastern University      January 2018 - Present  
*Graduate Teaching Assistant*

- Teaching assistant for the course Data Mining Techniques.

**Alnylam Pharmaceuticals**, Cambridge      July 2018 - December 2018  
*Computational Biology Co-op*

- Performed data extraction and manipulation on LINCS L1000 mRNA assay to investigate the effect of shRNA features on gene-expression.
- Applied statistical modeling like regression analysis and correlation tests, and visualization techniques using R and tidyverse to find interesting trends with respect to gene dysregulation.
- Experimented various regression models like Neural Regression, Random Forest Regression and Linear Regression to find patterns in large public datasets.
- Developed a web application using Flask to add, list and monitor plasmid AAV orders.

**Mass Open Cloud**, Northeastern University      January 2018 - April 2018  
*Research Assistant*

- Deployed Openstack on a cluster, using Packstack and use Jaeger to obtain and analyze tracing data.

**Comptel Communications**, Bangalore, India      July 2016 - June 2017  
*Solution Specialist*

- Worked in a 4-member POC team for developing end to end solution for TCL, ENEL, Idea, Singtel, and Telstra POCs
- Developed Business Service Logics to send requests and receive responses from OSS/BSS, developing and implementing NEIs and Work queues for provisioning and activation of mobile services.

## ACADEMIC PROJECTS

**MURA classification and visualization**, Northeastern University.

- A visualization project, using hierarchical ensemble CNNs to classify radiographs to body parts, and further detect abnormality in a separately trained CNN for each body part.

**Textual analysis of stock trend using news headlines**, Northeastern University.

- Use topic modeling, regression analysis and unsupervised classification to uncover patterns, and impact of various news categories on NASDAQ market.

**Lead Customer Prediction**, Northeastern University.

- Analyzed real time data from a financial company, to find how promising the prospects are, and assigning priority based on the same. Performance analysis on various classifiers, such as SVM, Neural Nets and Random Forests

## VOLUNTEER ACTIVITIES

- Winner of logo designing contest for the Research Department of Alnylam Pharmaceuticals. (2018)
- Member of an NGO, "Big Heart", which involved helping the unprivileged children learn, and help spread blood donation awareness. (2016)
- Elected as the "Girls secretary", in the college union (group of 8), responsible for organizing college cultural and academic fests.(2012)