**Deeksha Doddahonnaiah**

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Available: **September 2019**

**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**

**Languages**: R, Python, Java, Javascript, C

**Tools & IDE**: RStudio, tmux, Vim, GitHub, Anaconda, Jupyter, PyCharm, Matlab

**Libraries:** dplyr, tidyverse, ggplot2, D3, Bioconductor, sklearn, numpy, pandas, nltk, gensim

**Frameworks**: 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)