

Deeksha Doddahonnaiah

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Available: **September 2019**

EDUCATION

Northeastern University, Boston, MA **GPA: 3.67/4.0** 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, Data Mining Techniques
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: Flask, Tensorflow, keras, PyTorch, Django

WORK EXPERIENCE

Khoury College of Computer Sciences, Northeastern University January 2019 - 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 incorporating particle flow and GradCAM results of hierarchical ensemble CNNs, which is used 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)