MRINAL TAK

mrinaltak.github.io

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EDUCATION

University of Massachusetts Amherst *Jan'21- Apr'22*
MS in Computer Science

Indian Institute of Technology Guwahati *2013-2017*
B.Tech in Computer Science & Engineering GPA: 8.72

INDUSTRY EXPERIENCE

Goldman Sachs (Sr. Software Engineer) Jan'19 - Jan'21
· Spearheaded redesign of Query Understanding Module and brought down the latency by 82%.
· Responsible for design and development of topic modeling to identify latent topics in financial documents.
· Spearheaded the design and development of Hadoop Map-Reduce jobs to optimize the index files, which are to be loaded by the YARN application.
Technologies Used: Java 8, Hadoop, JUnit, YARN, REST, Python, Protocol buffers, IntelliJ, SVN.

Samsung Research (Software Engineer) Jun'17 - Jan'19
· Spearheaded the development of Anti-counterfeit Engine, by building a fact checking pipeline.
· Delivered a scalable, optimized Conversational Intelligence Module for smart calendar, using NLP techniques.
Technologies Used: Java 8, JUnit, Keras, Python, IntelliJ, Github.

PROJECTS

Entropy: Language Model Based Readability Metric *2017*
Guide: Prof. Ashish Anand, Dept. of CSE
Used KL divergence as a computational measure of readability of text.

Convolutional Neural Networks based Video Surveillance System *2016*
Guide: Prof. Arijit Sur, Dept. of CSE
Used Hierarchical Convolutional features and Multi-Domain net, to build an object tracker.

TECHNICAL SKILLS

Programming Languages	Java, Python, C++
Libraries and frameworks	Hadoop, Keras, Protobuf, REST, Github, JUnit
Softwares	IntelliJ, MATLAB, Visual Studio, Android Studio, LaTeX

COURSES COMPLETED

- Database Management System
- Computer Vision using ML
- Artificial Intelligence
- Intelligent Systems & Interfaces
- Data structures
- Algorithms
- Data Mining
- Operating System
- Probability