MRINAL TAK

EDUCATION

University of Massachusetts Amherst

Jan'21- Apr'22

MS in Computer Science

Indian Institute of Technology Guwahati

2013-2017 GPA: 8.72

B.Tech in Computer Science & Engineering

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 using Gensim LDA library.
- · 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, IATEX

COURSES COMPLETED

• Database Management System

• Computer Vision using ML

• Artificial Intelligence

- Intelligent Systems & Interfaces
- Data structures

• Algorithms

• Data Mining

• Operating System

• Probability