

Mrityunjay Kumar

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EDUCATION

STONY BROOK UNIVERSITY

M.S IN COMPUTER SCIENCE

Graduating MAY 2020

Stony Brook, NY

GPA: 3.52 / 4.0

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY

B.TECH IN COMPUTER SCIENCE

Graduated

May 2014 | Bhopal, India

Cum. GPA: 7.85 / 10.0

LINKS

Facebook:// mrityunjay2010

Github:// mrityunjaykumar911

LinkedIn:// mj2030

Twitter:// @mjay_nitb

Quora:// Mrityunjay-Kumar

COURSEWORK

GRADUATE

Operating System

Distributed System

Computer Vision

Data Science Fundamentals

Data Visualization

UNDERGRADUATE

Information Retrieval

Natural Language Processing

Data Structure & Algorithms

TEACHING

Introduction to Data Science

Teaching Asst

SKILLS

PROGRAMMING

Over 3000 lines:

C • Python • C++

Familiar:

Java • Matlab • golang

TOOLS/TECHNOLOGY

NLTK • Scikit • NumPy • PySpark

Storm • Keras • tensorflow • protobuf

gRPC • Celery • Neo4j

RESEARCH

DISTRIBUTED SYSTEM LAB | RESEARCHER

Jul 2019 – Present | Stony Brook, NY

Working with **Prof. Shuai Mu** and **Prof. Sebastian Angel** to develop a Distributed Multi-core Key-Value Database system based on software Transaction Memory.

EXPERIENCE

TALENTICA SOFTWARE | SENIOR SOFTWARE ENGINEER

April 2016 - Jan 2019 | Pune, India

- **Network Traffic Estimation**

Implemented a regression model for bandwidth prediction. Lazy Loading of ML model instance in storm from AWS. In production.

- **Network Traffic Detection**

Designed an auto-encoder based ML Module to detect the VOIP Traffic. Successful in Audio vs Video Traffic Detection. Failed in video based VOIP.

- **Single cell Identity Classification** Auto-encoder based neural network to identify the single cells with 83% accuracy. In Production.

- **Indoor Location Positioning for BLE assets**

Static Assets - High accuracy in location prediction and classifying the region
Live Assets - Low accuracy in Regression based on region triangulation using RSSI and the interference correction.

- **Machine Learning framework**

Created a Framework for showcasing Novel ML Algorithms developed by team. Implemented object based serialization serving model. Provided gRPC & Json request.

- **Search Engine** Online Ontology enhancer & Parser. NLP Pipeline for

Document Clustering, Keyword Extraction, Text Classification. In production.

MEDIATEK | SOFTWARE ENGINEER

August 2014 – April 2016 | Noida, India

- Improved Audio Player sub-modules Playlist, Integrated BT Stack in MMI Layer
- Led Internal Tool Development - Designed and Wrote SW Layer code for Stress Test based Combo{GPS-WiFi-BT} Tool

ACADEMIC PROJECTS

STONY BROOK UNIVERSITY, NY

- Backup File System in Linux Kernel
- Encryption based system tool for Linux Kernel
- Implemented Image Captioning Engine on Flickr8k dataset

MANIT BHOPAL, INDIA

- Product feature and Opinion extraction of Amazon dataset
- Semantic Orientation Of Twitter Data

PUBLICATIONS

- [1] R. Guntur and **Mrityunjay Kumar**. Learning to fingerprint the latent structure in question articulation. In *2018 17th IEEE International Conference on Machine Learning and Applications (ICMLA)*, pages 73–80, Dec 2018.