Mrityunjay Kumar

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EDUCATION

Maulana Azad National Institute Of Technology

Bachelor of Technology in Computer Science and Engineering; GPA: 7.85/10.0

Bhopal, India Aug. 2010 - May. 2014

Programming Skills

C, C++, Python •••••• Nltk, Scikit, NumPy Keras, tensorflow, tflearn PySpark, Storm, Celery Data Structure and Algorithms ------

• Throughput Estimation of network Pipeline:

Experience

Talentica Software

Pune, India April 2016 - Present

Senior Software Engineer - Machine Learning

[XGBoost,PySpark,tpot]

Developed a data driven model for predicting network throughput in live environment

Kev Features:

- Mimicked network parameters to capture WAN and LAN characteristics to procure the throughput
- Automated Lazy Loading of AWS model instance in storm machines
- Achieved: 97% Accuracy in high range speed & 78% Accuracy in Low range speed
- o Machine Learning as a service:

[Python, Celery, Redis, Keras]

Developed a boilerplate for training and running Machine learning algorithms in service layer **Key Features:**

- A Scalable platform for API based triggering of Machine Learning model training & serving
- Detached architecture for managing ML Services
- Object based serializer for IPC, availing unified view of obtaining hollow and trained models
- Indoor Location Positioning:

[Python,tensorflow, Spark]

Developed Indoor locatization tracking model for static and live assets **Key Features:**

- Static Assets A data driven probabilistic region classification
- Live Assets Regression based on region triangulation using RSSI and the interference correction
- Single cell Identity Classification:

[Python, opency, tensorflow]

Developed automated single cell detection using neural networks **Key Features:**

- Modelled a novel approach for detecting structure of single cells with 83% accuracy

o NLP Pipeline: [Python]

Developing extensive Language Processing pipeline model **Kev Features:**

- A Novel algorithm for unlabelled text modelling
- Keyword Extraction and Text Classification
- External Integration : Slack Bot, Alexa Skills
- External Model Training Framework: RASA NLU, wit.ai

Cloud Sync Application:

[Python,C++,File System]

A File system service which allows selective two way delta sync **Key Features:**

- Multi-platform silent auto-update framework
- Sharing of content across Multi-tenant architecture

o Search Engine:

[Machine Learning, NLP, Python, Neo4j]

A topic modelling based domain specific search engine model for handling large documents and providing intent based search retrieval.

Key Features:

- Online Ontology enhancer & Parser
- Designed in-line query expansion using Ontology
- Used graph DB for faster query processing and retrieval
- Automated formation ontology based on domain knowledge
- Clustering of documents with deep learning to understand the underneath context

Mediatek
Software Engineer

Noida, India

Aug 2014 - April 2016

o Audio Player:

[C,MTK Native OS]

Entitled Major Ownership for Audio player in feature phones

- Role and Responsibilities:
 Implementation of new requirements and assisted bug resolution
 - Implemented user defined play list [generation, delete, sharing]
 - Integrated new BT stack into Audio Player

o Combo Tool:

[C++,MFC,PCAP,OS Native Layer]

GUI Tool for processing modular commands for various system level test. Key Features:

- Implemented wrapper for WIN32 API for interacting with POSIX lib
- Implemented event driven asynchronous architecture
- Implemented packet data interfaces : Serial, RS232, Ethernet, USB

GUI Tool for monitoring online NMEA data from GPS Port.

Key Features:

o GPS Logger:

- Designed a pipeline system where Logger tool and android application can run benchmarking test cases.

Publications/Journals

Learning to Fingerprint the Latent Structure in Question Articulation

Talentica Software, India ICMLA 2018

[Java,GPS Port Layer]

Kumar Mrityunjay, Guntur Ravindra

10111211 2010

Academic / Personal Projects

• Product feature and Opinion extraction of Amazon dataset:

Prof. Saritha Khetawat

[NLTK,Python]

- Implemented detection of explicit features and opinion extraction in dataset
- Used graph DB to store the reviews about features

• Semantic Orientation Of Twitter Data :

Prof. Saritha Khetawat

[Java,Stanford Parser,Senti-wordnet,ML]

- Implemented classification for important aspect about a tweet
- Implemented semi-supervised score provider word polarity
- Listed user provided sentiment for key features about particular product.

CERTIFICATION & MOOCŚ ATTENDED

• Machine Learning:

• Basic Statistics : COURSERA

• Deep Learning: DATACAMP

• Natural Language Processing: COURSERA

• Python for Everybody Specialisation: COURSERA