

Mrityunjay Kumar
Skype: mrityunjay.kumar__tal

Email : mjaycse@gmail.com
Mobile : +91-8800300687

EDUCATION

- Maulana Azad National Institute Of Technology** Bhopal, India
Bachelor of Technology in Computer Science and Engineering; GPA: 7.85/10.0 Aug. 2010 – May. 2014

PROGRAMMING SKILLS

C, C++ , Python	●●●●●●●●●●
NLTK, Sci-kit, NumPy	●●●●●●●●●●
Data Structure and Algorithms	●●●●●●●●●●

EXPERIENCE

- Talentica Software** Pune, India
Senior Software Engineer - Machine Learning April 2016 - Present
 - Indoor Location Positioning:** [Python,tensorflow]
Developing live indoor location tracking model
Key Features:
 - A probabilistic approach for context aware positioning using BLE signals
 - Single cell Identity Classification:** [Python,opencv,tensorflow]
Proposed Developing automated single cell detection using neural networks
Key Features:
 - Modelling a novel approach for detecting structure of single cells
 - NLP Pipeline:** [Python]
Developing extensive Language Processing pipeline model
Key Features:
 - A Novel algorithm for unlabelled text modelling
 - Keyword Extraction and Text Classification
 - Automated pipeline to release stream ML Models to External Cloud
 - External Integration : Slack Bot, Alexa Skills
 - Cloud Sync Application:** [Python,C++,File System]
A File system service which allows selective two way delta sync
Key Features:
 - Push Annotated files back to user
 - Multi-platform silent auto-update framework
 - Sharing of content across Multi-tenant architecture
 - Search Engine:** [Machine Learning,NLP,Deep Learning, 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** Noida, India
Software Engineer Aug 2014 - April 2016
 - 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

- **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

- **GPS Logger:** [Java,GPS Port Layer]

GUI Tool for monitoring online NMEA data from GPS Port.

Key Features:

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

PUBLICATIONS

Recognizing Question Styles Using a Semi-Supervised Approach

Talentica Software, India

Mrityunjay Kumar, Guntur Ravindra

Draft

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.

- **Personal computer Assistant :**

[Python-falcon,ML-msg.ai,C++]

Key Features:

- GUI Tool for quick access to recent activities at PC.
- Maintaining permanent system cache for all favorite processes
- Desktop service : Playing music/movies/finding docs
- Web services : Top rated movies at IMDb,Wikipedia keyword information,Dictionary

CERTIFICATION & MOOC'S ATTENDED

- **Machine Learning :** COURSERA
- **Basic Statistics :** COURSERA
- **Deep Learning:** DATACAMP
- **Natural Language Processing:** COURSERA
- **Python for Everybody Specialization:** COURSERA