

Mrityunjay Kumar

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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, PySpark]
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
 - 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:
 - Push Annotated files back to user
 - Multi-platform silent auto-update framework
 - Sharing of content across Multi-tenant architecture
 - **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** 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/JOURNALS

Recognizing Question Styles Using a Semi-Supervised Approach

Talentica Software, India

Mrityunjay Kumar, Guntur Ravindra

Drafted

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:**

DATA CAMP

● **Natural Language Processing:**

COURSERA

● **Python for Everybody Specialization:**

COURSERA