

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
Software Engineer - Data Science *April 2016 - Present*
 - **Cloud Sync Application:** [Python,C++,File System]

Smart File system service to allow two way delta sync
Key Features:
 - Add and remove origin folders to sync
 - 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:
 - Smart Query classifier
 - Loss less Text Extraction
 - Used LDA/LSA to generate document vectors
 - Used graph DB for faster query processing and retrieval
 - Automated ontology formation based on domain knowledge
 - Clustering of documents with deep learning to understand the underneath context
 - **Image Processing:** [Machine Learning,OpenCV]

A POC which runs various ML algorithm on image data
Implementations Done:
 - Clustering all color patterns contained in image logo
 - Identifying mobile numbers in scanned pdf
 - Extracting normal text from images
- **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]
 - Implemented new BT stack into Audio Player
 - Modified AUDIO Play engine for asynchronous event handling

- **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.

ACADEMIC / PERSONAL PROJECTS

- **Product feature and Opinion extraction of Amazon dataset:** Prof. Saritha Khetawat
[NLTK,Python]

- Implemented Logistic regression to model product sentiments using HMM
- 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 Specialization :** COURSERA [2/5]
- **Machine Learning :** COURSERA [3/5]
- **Basic Statistics :** COURSERA [completed]
- **Probabilistic Graphical Model :** COURSERA [1/3]
- **Python for Everybody Specialization:** COURSERA [completed]