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
  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:
  - On-line Ontology enhancer & Parser
  - Designed in-line query expansion w.r.t Ontology   - 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 & MOOCŚ ATTENDED

- **Machine Leaning 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]