



## Abhishek Kapoor

Software Architect

### How to reach me:

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### Education

M.Sc. Informatics (Delhi University)

### Work Experience

- Technical Lead**  
Medeva.io  
Feb 2019 - Present
- Software Engineer**  
Juxt Smart Mandate  
January 2015 - Jan 2019
- Analyst (IT)**  
Smart Mandate  
July 2014 - December 2014
- Intern**  
National Informatics Center  
May 2013 - July 2013

### Project :

#### Role Based Access Control

Limiting the user control on the basis of assigned roles.

- Django middleware development for permission validation
- \* Custom Object Relational Mapping (ORM) development for LDAP using Apache Directory Server to perform following functions:
  - CRUD permission definition
  - Role Creation
  - Group Role Definition
  - Role Assignment
- Tools used - Apache Directory Server, Django, Apache Directory Studio

### Personal Profile

Software engineer with 7 years of experience in developing the highly scalable business solutions with Python. Currently working with Medeva on building AI driven Electronic Health Record Platform.

### Skills

Python Django Elasticsearch  
Postgres MySQL REST Redis  
Pandas Scikit-learn Deep Learning  
Tensorflow Keras Snomed-CT  
Docker AWS GCP

### Project :

#### AI Drive EHR system - Health Care

Application Architecture and Development:

- Digitization of Electronic Health Record for a doctor-patient interaction. As a senior Software architect my role was to develop back-end architecture. The process involved
  - Product feature were converted to story points
  - Data model architecture using ER diagram
  - API Listing and development
  - Tools Used For Development - Python's Django Framework, Celery, Sentry, REST framework
  - Database Used - PostgreSQL, Redis
  - Deployment Services Used - Docker, nginx, UWSGI
- Customize existing tool (Anafora) for Medical Coders for SNOMED-CT backed annotations. The tool consisted of following features:
  - Automatic Token Suggestion:
    - Tools used - Elastic Search, Python, SNOMED-CT API
  - Structure Data and Storage:
    - Tools Used - PostgreSQL, Python

### Project :

#### Restaurant User Review Analysis - Hospitality

To analyse the customer churn patterns on the basis of user reviews. The process consist of the following process:

- Customer Review's collection from restaurant aggregator websites using python and MongoDB database
- Data Wrangling by removing redundant html tags and stopwords
- Information Extraction from user reviews using Topic Modelling
- Sentiment Analysis of user review given the user topic
- Exploratory Data Analysis using the aggregated data

### Project :

#### Summarized news letter generation

Summarized news letter generation based on user given categories. The process involved following steps

- Scrapers Development and storage
  - Tools Used: Python, MongoDB
- Extractive Summarization
  - Tools Used: Python
- Send E-mails
  - Tools Used: Python, MailChimp

### Project :

#### Personalised Auto-Suggestion

User based auto complete recommendation

- For state of the art performance, recommendation was done using a scoring mechanism. The mechanism consisted of the score computation:
  - a. Collaborative filtering based scoring
  - b. User based scoring