

Nithin Kumar KV

CONTACT INFORMATION

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 Github: <https://github.com/nithin-kumar>

SKILLS

Strong knowledge in Data structures and Algorithm
Project skills: Developing in Python, Ruby, Java; Machine learning algorithms, Classifiers, Language Models and NLP; Amazon AWS; Redis
Languages and Technologies: Skilled in Ruby, Python, JavaScript

EXPERIENCE

Practo Technologies ,Bangalore, India

Senior Software Engineer

October 2017 – Present

- **Poller:** Architected and built a scalable platform to support the real time syncing of Doctors schedule on hospital HMS and Practo.com, for effectively managing Doctor timings
- **Re-architecture:** Re-architected entire cloud platform structure of Qikwell, which reduced the overall running cost of the system, as well as it improved the performance, availability and security of the system
- **Sirius :** Machine learned model to determine the intent of the call.

Software Engineer

November 2015 – September 2017

- **Prediction of Patients Consultation Time:** Developed Machine learning system which predicts the consultation time of patient using doctors historical practice data with an accuracy of +/-12 minutes. This led to a significant reduction in waiting time
- **Secure System to Store and retrieve Patients sensitive information**
- **Integration system:** Built Scalable Integration system, which constantly communicate with different Hospital Information Systems.

Qikwell Technologies Pvt Ltd, Bangalore, India

Software Development Engineer

March 2014 – November 2015

- **Qikwell Analytic Dashboard :** Reporting system which is used to aggregate and show Qikwell's appointment data.
- **Qikwell Callcentre :** A tool for booking appointments for Call centre staffs.
- **Implemented a Redis cache framework for storing data that improved overall system scalability**

INDEPENDENT PROJECT

Python library for Multi-document classification

Created a library for Multi-document classification. Here I used Multinomial Naive Bayes Algorithm for Training the ML Algorithmmm. *Python*
https://github.com/nithin-kumar/multinomial_bayes_classifier

Question Word Predictor

A Classification system which which predict the Question word from the given question. It is a Supervised Machine learning program which uses Multinomial Naive Bayes with Laplace smoothing to classify the Question *Python*
https://github.com/nithin-kumar/question_type_predictor

Sentiment Analysis on Movie Reviews

This work involve a way of predicting the sentiment of users review on movies. Used a probabilistic way of solving problem using Multinomial Naive Bayes Algorithm. *Python*
<https://github.com/nithin-kumar/sentiment-analysis>

Phrase Based Statistical Machine Translation System for English to Malayalam and Malayalam to English(Academic)

This work involves translation of English language to Malayalam and Malayalam to English. System is programmed to learn linguistic rules for translation from the large parallel corpus. Here we created 3-gram language model for translation. Duration: 12 Months

Language: Python, Java

Tools used: SRILM, Giza++, Swing

https://github.com/nithin-kumar/statistical_machine_translation **Key phrase Extractor**

Designed and implemented a Machine Learning algorithm to extract key phrases from documents. *Python*
https://github.com/nithin-kumar/keyphrase_extractor

Web Crawler+ Indexer

This program crawl the web to a specified depth starting from a source page and build index for searching. *Python*

https://github.com/nithin-kumar/web_crawler

EDUCATION

Govt. College of Engineering, Kannur, Kannur University, Kannur, Kerala, India

B-Tech in Computer Science and Engineering(70.06%)

September 2009 – June 2013

Higher Secondary, Madayi GBHSS, Kannur, Kerala, India (86.15%) **June 2006 – March 2007**

SSLC, Kunhimangalam GHSS, Kannur, Kerala, India (87.5%)

June 2005 – March 2006

OPEN COURSE WARE

CERTIFICATIONS

AND WORKSHOPS

- 1) *Computational Linguistics and Machine Translation(CLMT-2012) from English to Indian Languages*, supported by TCS, CHIL-Mysore, DIT, MHRD and CDAC- Pune.
- 2) *CS101:Building a Search Engine* : Certificate of accomplishment from **UDACITY**
- 3) *CS253:Web application engineering, How to build a blog*: Certificate of accomplishment from **UDACITY**
- 4) *Machine learning by Andrew Ng* : Coursera
- 5) *Design and Analysis of Algorithm 1 by Tim Roughgarden* : Coursera
- 6) *Design and Analysis of Algorithm 2 by Tim Roughgarden*: Coursera
- 7) *Introduction to Algorithm*: MIT Open Courseware