

Nithin Kumar KV

CONTACT INFORMATION

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SKILLS

Strong knowledge in Data structures, Algorithm design and Algorithm analysis
Project skills: Developing in Python,Ruby;Development on Machine learning algorithms, Classifiers and NLP systems;Elastic Search;Using Ruby, Rails, Python, JavaScript, JQuery and HTML for front end development; *Languages and Technologies:* Skilled in Ruby, Python, Rails, SQL, JavaScript

EXPERIENCE

Practo Technologies ,Bangalore, India

Software Engineer

November 2015 – Present

- 1)**Built Secure System to Store and retrieve Patients sensitive information**
- 2)**Integration system :** Built Scalable Integration system, which will constantly communicate with different Hospital Information Systems.
- 3)**Prediction of Patients Consultation :** Developed Machine learning system which can predict the Consultation time of patient using historical data within an accuracy of 12 minutes. Which reduced the effective waiting time of patients in hospitals

Qikwell Technologies Pvt Ltd, Bangalore,India

Software Development Engineer

March 2014 –November 2015

- 1)**Qikwell Analytic Dashboard :** Reporting system which is used to aggregate and show Qikwell's appointment data.
- 2)**Qikwell Integrate :** System which will communicate with other Hospital Information System.
- 3)**Qikwell Secure :** System that provide security to patient information.
- 4) Improved the conversion rate of wait listed patients, by incorporating the Naive Bayes algorithm.
- 5) Implemented a Redis cache framework for storing data that improved overall system scalability.

INDEPENDENT PROJECT

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

Python library for Multi-document classification

Created a library for Multi-document classification. Here I used Multinomial Naive Bayes Algorithm for Training the ML Algorithmm.*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>

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, CIIL-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