

# Aquib Javed Khan

MACHINE LEARNING ENGINEER · NLP

(+91) 95-8316-0009 | ajkhan357@gmail.com | aquibjk.wordpress.com/ | aquibjaved | aquib-javed-khan-795a7286/

## Summary

Currently, working as a Machine learning engineer in Tokopedia with more than two years of experience in the development and implementation of machine-learning models mainly focused on Natural Language Processing and Computer vision. Actively seeking a data scientist position to apply my experience and knowledge of machine learning in creating a valuable data implementation for Business.

## Work Experience

### TOKOPEDIA

Noida, India & Jakarta, Indonesia

#### MACHINE LEARNING ENGINEER

Feb. 2018 - PRESENT

- **IMAGE SEARCH:** *Custom Object detection using Yolo, Elastic search, TensorFlow, AutoEncoders*  
Developed Image Search Engine, Users can directly search with images, currently working for fashion category
- **FALLBACK RATES:** *K-NN, KDTree, Sci-kit learn, Flask for Rest API*
  - Develop a model for orders which were lost during the rush hour of sale & high traffic API calls from logistics companies
  - Increased the number of orders placed by the end user and total profit by 4%
- **OPERATIONAL CUSTOMER SUPPORT CHAT-BOT:** *Ngrams, Nearest Neighbor, Word Embeddings using FastText*
  - Built a model to predict the "type of questions" user is asking and respond back with respective solutions
  - Designed a operational customer support team with minimal human resources increasing efficiency by 20%
- **SMART REPLY:** *N-grams based model, CNN LSTM classifier, Keras, Flask*
  - Implemented a model which understands the questions of end user and provides relevant solutions in the response box.
  - Reduced the response time between buyers and sellers by 16%

### TATA Consultancy Services

Chennai, India

#### ASSISTANT SYSTEM ENGINEER & NATURAL LANGUAGE PROCESSING ENGINEER

Feb. 2017 - Feb. 2018

- **NATURAL LANGUAGE SEARCH:** *Sci-kit learn, Spacy, Stanford NLP, CCG Parsing, Scala, Deep Learning Models*
  - Constructed a Natural language search pipeline which provides an unified access to applications in the platform
  - Built a language model for Named Entity Recognition & Intent Classification which understands various types of query

### ETRIX Technologies

Bhubaneswar, India

#### MACHINE LEARNING ENGINEER (INTERN)

May. 2016 - Feb. 2017

- Automated clothing classification system using transfer learning to classify the query image into its respective category
- Applied Naive Bayes classifier with sci-kit learn library to design Intent classification in chatbot

## Skills

**Data Science** : Machine Learning, Deep learning, Computer Vision, Natural Language Processing

**Frameworks** : TensorFlow, Sci-kit Learn, OpenCV, Flask, Keras, Pandas, NumPy, FastText, Gensim

**Languages** : Python, Scala, MATLAB

## Education

Orissa Engineering College (Biju Patnaik University of Technology)

Bhubaneswar, India

B.TECH. IN MECHANICAL ENGINEERING

Aug. 2012 - May. 2016

## Extracurricular Activity

**DISCOVERY 2016** (A competitive event to discover potential for solving societal challenges)

TCS Thane, India

Nov. 3- Nov.7 2016

### PARTICIPANT & WINNER

- Worked on real time water quality monitoring system using IoT and Machine Learning
- Winner at Digital Impact Square 2016