Rahul Tripathi

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**EDUCATION**

**B.E | CSE | LNCT | 75%(Hon) | 2013**

**SKILLS**

## PROGRAMMING/IDE

Python

Jupyter Notebook

Spyder/PyCharm

Angular4

## PROJECTS

Data-Enrichment Product.

Recommendation Engine.

Pole Classification

Cross-sell/Upscale products.

Predicting products return chances.

Image Classification.

Text/Voice based chatbot.

Automating ticket resolution.

## MACHINE LEARNING

Classification Algorithms

Regression Algorithms

Cluster Analyses

Natural Language Processing

## DEEP LEARNING

Neural Network

Convolutional Neural Network

RNN/LSTM

## LIBRARIES

Sckitlearn/NumPy/Pandas/Scipy

Keras/TensorFlow

SpaCy/NLTK

pyOdata/Klein/Flask

Scrapy/Beautiful Soup

Tesseract/py-ocr

pyPDF2/Tabula/py-docx/pyOcr

## Webserver

Nginx/Apache Tomcat

## EXPERIENCE

## Utopia Global (RND Lab) | Engineer – Data Science

May 2018 – Present | Bangalore, Karnataka

* Built a web scraper product to scrape data coming from priority search algorithm.
* Design and built Priority Search Algorithm from 10lacs URLs.
* Created a rest APIs for all algorithms using Klein micro web framework.
* Ported all rest APIs from http to https in Nginx Webserver from scratch.
* Configured NGINX server to provide CORS and CSRF security support.

## Accenture (RND Lab) | Machine Learning Engineer

Dec 2015 – May 2018| Bangalore, Karnataka

* **Recommendation Engine (Internal Projects)**

 Responsibilities

* Implemented item/user -based technique (cosine similarity) based on user completion history to recommend similar learning board.
* Implemented content-based filtering algorithm to recommend similar learning boards.
* Implemented multi-threading and multi-tasking using klein library.
* **Image Classification using CNN (Client - NBN)**

Responsibilities –

 Build a CNN neural network to classify electric and non-electric poles.

* Develop a code to automatically download image using latitude and longitude.
* Written a code using Inception Model V3(transfer learning) to classify pole images.
* **Product return prediction (Client - H&M)**

 Responsibilities -

* Identification of use case based on data.
* Implemented random forest/SVM/Naïve-Bayes algorithm to classify return and non-return products.
* **Cross-Sell/Up-Sell of Products (Client - Unilever & Coke Client)**

 Responsibilities –

* regularly interface with client for understanding the data and domain.
* Implemented association rules(Apriori) and K-means for cross-sell/upsell products.
* **Voice/Text Based Chatbot (Client - Workday and AVIVA Client)**

 Created a voice and text based chatbots