

Rahul Singh

Data Scientist – Machine & Deep Learning

Having 2.8+ years' experience as a Data Scientist focused on deriving useful business insights from large datasets, and helping organizations generate business value and revenue using a data-driven approach.

Good exposure in develops Machine Learning and Deep Learning solutions for Text, Image and Video data.

Hands on experience to developed models (supervised and unsupervised) for data at the scaling level. Solid understanding of explanatory data analysis (EDA), data pipe-line, information extraction, data cleaning, Optimization, visualization and deployment.

Exposure: Text APython, Java Script, Pandas, Numpy, Sckitlearn, Tensorflow, Keras, Pytorch, FastAI, NLTK, Spacy, OpenCV, Statistics, PySpark, Matplotlib, Seaborn, D3, CI/CD, Docker, Git, Jira, Google Cloud, Amazon Web Services(AWS).



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Amritsar



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<https://github.com/rahul2u>

Work Experience

Kochartech Infotech Ltd

Data scientist

25/03/2018 -17/ 07/2020

Amritsar, India

Role and Responsibility-

Understand the client requirement, develop the cutting edge solution, deployment and maintenance etc.

Given below some notable work.

- **Real time Video analytics platform** –We have various use cases related to BPO, Retail, Bank, IOT

1-BPO Use Cases: Mobile Detection, ID card wearing or not

2-Retail Use Case: People counting various shops (No of client coming and out particular day, Desk cleaning, Guard detection. All activity done on edge and server real time basis and reporting higher authorities using automatic mail system.

3- Bank Use cases: FRC open and closing time, Customer, Vault opening and closing time, TV open and not, ATM is clean or not, Guard detection Employee Time and table etc.

- **Environment:** Python, OpenCV, Pandas Custom YOLO, Pytorch, RestAPI, Flask etc.
- **Multilingual Chat Bot-** building and deployment for 2nd largest telecom client for gulf country. It has custom intent, entities and utterances. It also integrates for website, WhatsApp and Facebook messenger. can use Social Media for lead generation and boost sales.
- **Environment:** Python, PHP, NLTK, Spacy, Tensor flow, RASA, Docker, Deployment, Amazon Web services(AWS), CI/CD

Constalytics

Data Scientist-Machine Learning

01/2017 - 07/2017

Mohali, India

Role and Responsibility-

Working as team on various projects some are given below

- **Social Media Analyzer:** Developed a program in Python to gather, analyze and find trends in the Constalytics unstructured user's comments on Twitter & Facebook, gave 10 tips on how Constalytics can use Social Media for lead generation and boost sales
- **Social graph analytics:** finding centrality, degree, page rank, shortest path algorithms and other graph properties.
- **Environment:** Python, Pandas, Numpy, Skit-learn, NLTK, Google Analytics & Google Trends, Igraph, Networkx, SQL, Neo4j, etc

Constalytics

Computer teacher and Freelancer (2 years)

06/2009 - 12/2016

Kanpur, India

Role and Responsibility-Working as Teacher and some freelancer work given below

- Teaching computer subjects in school and also doing freelancing work area of NLP, Text Mining Computer Vision and Machine Learning area as freelancer
- **Financial data Analysis,** Time series Analysis, Making Trading algorithms, Financial Statement Analysis
- **Portfolio analysis,** Stock Sentiment Analysis, Pipeline trading Algorithms etc.
- **Environment:** Open CV, Tensor flow, Keras, Python etc.

Education

Master's Degree- MCA (Regular)

U.P Technical University, Lucknow (U.P), India

06/2006 - 06/2009

Percentages – 67.5

Bachelor's Degree- Computer Application

Kanpur University, India

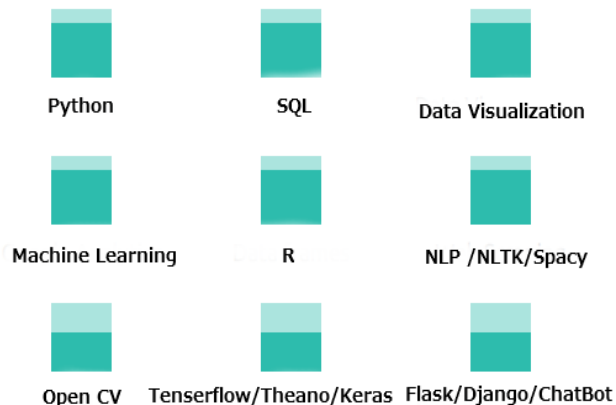
06/2002 - 06/2005

Percentages – 54.5

Certifications

- Machine Learning –Coursera
- Machine Learning A –Z–Hands On Python And R- Udemey
- Deep Learning A-Z –Hands-on Artificial Neural Network- Udemey
- Python Data Science and Machine Learning Boot camp - Udemey
- Artificial Intelligence A-Z: Learn How to Build An AI –Udemey
- Spark and Python for Big Data with PySpark –Udemey
- Introduction to Computer Vision Master OpenCV 3 in Python –Udemey

Programming



Other Projects

Area of Interests

AI | Machine Learning | Deep Learning | NLP | Computer Vision | Data Science

Social Media Analysis- Python 06/2016 - 07/

Sentiment analysis over Twitter API using Python.

Newsgroups Topic Modeling Python 07/2016 - 08/2016

- Python code to extract, the data with different news websites, feature extraction, visualize data, Preprocessing (tokenization, stemming and lemmatization),SVM, clustering ,k-mean clustering, Non negative matrix factorization, Topic modeling etc.

Web Scrapping Project | Python 12/2016 - 01/2017

- Crawled the data to parse person's name, email address, and net worth, generated report from it using Beautiful Soup, Pandas, RE, NLTK and D3 API.

Click through Prediction | Python 2/2017- 03/2017

- Online advertising click through prediction given a user and page they are visiting, how likely they will click on a given ad. Using different algorithms for click through prediction like Decision Tree, Random Forest and Logistic Regression.

Reporting Server | Python 2/2017- 03/2017

- Online This server based on Django frame work for reporting purpose.

Campaigns and Consumer Reaction Analytics on

YouTube | Python 2/2017- 03/2017

- Online Using accesses the Data using YouTube API structured and unstructured data sentiment analysis in time.

Skills & Competences

