





Afzal Juneja

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EXPERIENCE (3 YEARS AND 6 MONTHS)

CrowdANALYTIX Inc, Bangalore — Data Engineer.

June 2016 - PRESENT (Full Time)

— [CrowdANALYTIX](#) is a platform for crowdsourcing and deploying AI, NLP & Machine Learning solutions. 18K+ of data scientists compete & collaborate on our crowdsourcing community ([the human layer](#)) to build optimized algorithms. These algorithms are then deployed & maintained on [dataX.ai](#) ([the machine layer](#)) for reliability and scale.

PROJECTS

CrowdANALYTIX Inc, Bangalore — (2 Major Projects)

1.) Pattern Recognition Models For SEO:

— **Objective:** To create a system that will take unstructured data of one of the largest E-commerce retail-giant and recognize frequently occurring patterns in the product-description and identify the dependent variable.

— **Method & Technology:** We used too many approaches. Using NLP, Machine Learning, Through Data Sources, Word2Vec and Regular Expressions.

— **My Role:** To write the modelling script using python and perl. However each model must assure **95% accuracy**.

2.) Product Image Attribute Extraction ([DataX.ai](#)):

— **Objective:** To make supervised/unsupervised Image classification system for e-commerce giants and returning all the potential attributes from image.

— **Method & Technology:** Object Detection, ROI technique, Image classification algorithm, APIs integration, Image processing.

— **My Role:** Preparing Datasets (in TBs), Building image-models (using Open-CV and Tensorflow), Designing and deploying pipeline-architectures (with requirements of cost efficiency and minimal inference time).

SKILLS

Python	★★★★★ (Advance)
Image-Processing	★★★★★ (Advance)
Text Mining	★★★★★ (Advance)
Regular Exp	★★★★★ (Advance)
Predictive-Models	★★★★★ (Semi-Advance)
Tensorflow	★★★★★ (Semi-Advance)
Elastic Search	★★★★★ (Advance)
Data-Management	★★★★★ (Advance)
Scraping	★★★★★ (Advance)
API-Designing	★★★★★ (Advance)
Algorithm-Analysis	★★★★★ (Advance)
Linux-bash	★★★★★ (Semi-Advance)
Data-Visualization	★★★★★ (Semi-Advance)
Perl	★★★ (Intermediate)
TF-Serving	★★★★★ (Advance)
Cloud-Services	★★★★★ (Semi-Advance)

TECHNICAL KNOWLEDGE/ADVANCEMENT

- **Building and deployment of ML/DL models:** Mostly I have worked on building/deployment of image-processing models using *Tensorflow, MXnet, Open-CV, and Keras*.
For deployment I have implemented *TF-Serving/TRT-Serving using TPUs, NVIDIA-GPU and Kubernetes*- to improve the latency of model-inference that too with mandatory factor of cost-efficiency.
- I have used/explored all possible available Google Cloud Services (*LoadBalancer, TPUs, GoogleVision, BigQuery, GoogleBucket, Kubernetes, ML Engine* etc).
- Very much fluent with text-data as well- explored and applied few of the language models (*ex: BERT*).
- **FRAMEWORKS:** Intermediate knowledge of WEB/API frameworks in Python(i.e Django, SAINIK etc) and can excel quickly if required.
- **DATABASES:** Implemented and used ElasticSearch, PSQL, and MYSQL.
- **THREADING:** Implemented and used asynchronous queuing architectures like RabbitMQ, Celery and REDIS in several projects.
- Professional with Python programming and Intermediate with C++, PERL- can excel quickly if required.

EDUCATION

Kalsekar Technical Campus, Panvel: New Mumbai.

July 2012 - May 2016

- Bachelor Of Engineering: **Computer Science**.
- **Subjects:** Algorithms Analysis, Artificial Intelligence, Object Oriented & Structure Programming, Computer Networks, Computer Security, Data Structures in C and Python, Data Warehousing, Data Mining and Operating Systems.
- **Databases:** Central Database and Distributed Database Management System.
- **Aggregate CGPA:** 7.25

Elphistone College, Mumbai.

July 2010 - February 2012

- **Junior College,** Studied Mathematics and Science.
- Marks Scored, Mathematics: 66%
- Marks Scored, Science: 65%

Dawood Fazal High School, Mumbai.

June 2000 - March 2010

- Secondary School, 79.9%

AWARDS

1st Prize: National Level.

Final year project presentation.

(Project: Resume Parser Using Machine Learning and NLP.)

PUBLICATIONS

PAPER PUBLISHED:

Intelligent Hiring System using Natural Language Processing and Machine Learning.

IJIRCCCE Journal:

The International Journal of Innovative Research in Computer and Communication Engineering.

OTHERS

Being Part Of: Competitions.

ALGORITHM 2.0: Application building competition for tackling social issues.

SEED-IT Idol: Qualified till top 40.

Inter College Coding Competition: Logical challenges in C and Java.

Being Part Of: Workshops.

College: Workshops on Python, Web-development, Android Application, Networking and Ethical Hacking.

Meetups: Meetup on Text-Mining with python and R arranged by Bangthetable.in

Attended few of Toastmaster public speaking gatherings.

Extras:

- *Poetries*

COMMUNICATION

Well Enough, Verbal, Writing and Presentation skills(4 out of 5) .

Fluency: English and Hindi.