JAY NARESH DHANWANT

ACADEMIC PROFILE

Degree/Certificate	Institution	Percentage/CGPA	Year
IDD	Chemistry IIT (BHU), Varanasi	8.48	2022
Maharashtra State Board (XII)	Hislop, Nagpur	82.77	2017
CBSE (X)	Bharti Krishna Vidhya Vihar, Nagpur	91.20	2015

SKILLS

- **Areas of Interest** : Data Science, Analytics, Strategy, Development.
- **Languages:** : Python, C, C++, SQL, javascript, MATLAB
- **Tools /Frameworks** : Cloud Computing, Data/ ML-based python libraries,ml5.js, Tensorflow/ tensorflow.js, Pytorch, dask, pymysql, Microsoft Excel, XLwings, Tableau, algorithmic programming

INTERNSHIP/TRAINING

Data Scientist Internship | Flatfolder Ltd. Finland — May'20 - July'20

Developed **3 major analytics services** for flatfolder platformed and engaged with web developers to bring it into production.

- Managed MySQL database with **0.5 Million** data points across multiple tables effectively using **dask**
- Executed extensive pre-processing on scrapped data including **descriptive texts**.
- Developed pipeline to **automate model selection** and training for **3 problem statements** (i) Cluster similar apartments (ii) Predict rental and selling cost **(r_2: 0.96)** (iii) Recommend renovations and ROI
- Created dashboards to deliver insights to clients and domain experts and **improvised on the feedbacks**
- Made corpus of renovation texts that decreased translation costs from **3750$ to 170$**

Exposure: Statistical Analytics, here-API, SQL, AWS, Machine Learning, Tableau, algorithmic programming: *https://flatfolder.com*

Machine Learning Practitioner | Mediport — 1st-30th April 2020

- Built and deployed API endpoints that return the pathology report parameters from an image using **AWS Beanstalk**
- Collaborated with **PhenoMx Inc. a USA** based digital health company to create risk factor analytics of COVID 19 based on comorbidities and blood parameters.
  Exposure python, Flask, Computer Vision, OCR, AWS Beanstalk, Statistical Analysis

PROJECTS

Antibiotic prediction using Spectroscopy and Deep Learning — Sem V - VI

UG Project under the supervision of Dr. V. Ramanathan

- Gathered spectral data from lab. and previous studies. 30 stains were grouped into 7 treatment class
- Observed data size-independent accuracy of **91%** & **88.9%** in Logistic Regression and Random Forest
- Modeled customized **1D - filter -ResNet**. ResNet with **99.1%** accuracy trained over 60,000 spectra addresses high SNR and subtle peaks, performed better than ANNs

Forecasting COVID 19 growth in India with customized SIR Model — Sem VI

Under the supervision of Dr. V. Ramanathan

- SIR model is an epidemic model where the differential equation parameters are pre-assumed
- Optimized a custom loss function to estimate these parameters with data. Written a **public reviewed paper** to comprehensively analyze the results: *https://arxiv.org/abs/2004.00696*

Significant Short Term Projects

Client Relation

Client: Mr. Benny Asnake | IT Data Consulting LLC. | Reston USA
https://lor-jay.s3.amazonaws.com/ITDC_Jay_Recommendation.pdf
Written a clustering algorithm for CRM data that retrieves the data from the oracle database recognize, and labels typographical errors together, clusters data, and creates visualizations.
Client: Mr. Pieter Cawood | University of the Witwatersrand | South Africa
Implemented my paper on SIR model parameter tuning, did a comprehensive analysis between LSTM and 1D CNN in COVID 19 forecasting for Mr. Cawood's research work.

EXTRA-CURRICULAR ACTIVITIES

Presentation

Educator at Unacademy
March 2018 - May 2018
Made online video lectures on 1st-year curriculum with **10,000+** views and built a community of **690+** dedicated followers

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