Ranjeet R. Dhum

11-701, Nyati Equatorial 2, Bhunde vasti, Bavdhan, Pune - 411021

□ (+91) 9762-633-753 | ☑ ranjeetrdhumal@gmail.com | ☐ ranjeetrdhumal

"Every day may not be good, but there's something good in every day."

Professional Summary _____

- Currently Working as a Data Scientist at Exadatum Software Services Pvt Ltd
- Machine learning concepts Regression, Classification, Clustering, Statistics, Neural Networks, NLP, Computer vision, etc.
- M.Sc. in Physics(Quantum Mechanics) from Department of Physics, SPPU, Pune
- Total Experience: 4 Years 5 Months, Relevant Experience: 3 Years 1 Months.1 year 4 months experience in Research (Computational Physics) and 14 months of teaching experience
- Visiting faculty and board of studies member at MIT-WPU (for masters course Big Data Analytics)
- $\bullet \quad \text{Patents https://patentimages.storage.googleapis.com} / 43/51/52/959c667ebbbfe9/WO2019097412A1.pdf$

Skill Sets ____

Machine learning Skills

- Linear Model, Logistic Model, Naive Bayes
- KNN, SVM, Random Forest, XGBoost
- Neural Networks (ANN, CNN, RNN)
- TF-ID, N-Grams, word vectors
- PCA
- Time Series Analysis
- Scikit-Learn, Keras, Tensorflow, PyTorch, NLTK, Spacy, RASA
 AWS, AWS Lambda, AWS S3, AWS EC2

Programming Skills

- Python (Object-oriented programming)
- Shell Script
- Android
- MySQL
- Cassandra
- MongoDB

Projects ____

Named Entity Recognition on unstructured documents

Exadatum Software Solutions Pvt

1 td

Sep 2019 - Now

USING PYTHON, PYTORCH, STANFORD CORE NLP, BERT, PYTESSERACT ETC.

- Building a alorithm "Only surrounding matters" to identify named entities in unstructured documents
- Using BERT pretrained model embeddings to train NER model

Exadatum Software Solutions Pvt

Ltd

USING PYTHON, PYTORCH

Sep 2019 - Now

- Trying to build algorithm to do abstractive text summarization
- Achieved state of the art blue score of 38% on GigaWord dataset

Stoppage identification and stoppage Intent prediction

KPIT Technologies

USING PYTHON, SCIKIT-LEARN, TENSORFLOW, SPACY

Abstractive text summerization

Jan 2019 - Now

- Built a algorithm to identify stoppages taken by vehicle using geo-spatial data and predicting its possible intent (Among 17 intents)
- Achieved accuracy of 90% + for stoppage intent prediction

Journey cost optimization and planning

KPIT Technologies

USING PYTHON, SCIKIT-LEARN, OR-TOOLS

July 2018 - Dec 2018

- Built a state of the art algorithm to find the cost-optimal route
- Also built Journey planning (Recommendation engine) algorithm
- Developed modified DBSCAN algorithm (Internally called Selective C-DBSCAN algorithm)

RANJEET R. DHUMAL · RÉSUMÉ MARCH 14, 2020

Chatbot to resolve support tickets (With verrnacular language support)

KPIT Technologies

Feb 2019 - Now

USING PYTHON, RASA, DUCKLING, SPACY, ANGULARJS ETC

Analytics use cases POC on telematics data

- Used google APIs for vernacular language support, and Rasa stack as chatbot framework
- Reduced human efforts required for support by 60% and cost by 40%

KPIT Technologies

USING PYTHON, SCIKIT-LEARN, TENSORFLOW, PYTORCH, SPACY, NLTK, ANGULAR JS ETC.

July 2018 - NOW

• Built various POC's like road sign detection, fuel theft identification etc.

Real-time sound analytics to get OEE, Quality, Performance, etc for CO2 welding machine

Asquared IoT

USING PYTHON, SCIKIT-LEARN, PY-AUDIO, TENSOR-FLOW ETC

2017 - June 2018

- Built a product which records sound and predicts Welding(CO2) operations Quality, Performance, Availability, OEE, etc in real-time
- Developed novel sound analytics technique to classify CO2 welding sounds

Case study - Vehicle OBD data analytics

Asquared IoT

USING PYTHON, PANDAS, SCIKIT-LEARN ETC

Feb 2017 - Jun 2017

- · Used machine learning to get parameters which are not directly measured by sensors like headlight ON/OFF status etc
- · Built predictive models using Random Forest, SVM, Linear regression to get instantaneous fuel consumption, Fuel trim prediction, etc
- Complete case study:- http://www.a2iot.com/wp-content/uploads/2017/04/A2IoT-OBDII-Case-Study.pdf

Identification of fault in milling machine operation

Asquared IoT

USING PYTHON, PANDAS, SCIKIT-LEARN ETC

Feb 2018 - Apr 2018

- Applied clusstering on milling machine sound data (DBSCAN and K-means clustering)
- Identified anomalies (Faults) in various subrpocesses

Android application for Equilips 4.0

Asquared IoT

USING ANDROID STUDIO, JAVA, XML ETC

June 2017 -

Patents _

SYSTEM AND METHOD FOR MULTIMEDIA-BASED PERFORMANCE MONITORING OF AN EQUIPMENT

Asquared IoT

ASQUARED IOT PVT LTD

• Link - https://patentimages.storage.googleapis.com/43/51/52/959c667ebbbfe9/WO2019097412A1.pdf

Projects .

Loan PredictionAnalyticsVidhya.com

ANALYTICSVIDHYA.COM PRACTICE PROBLEM

OCT 16 - DEC 16

• Achieved Score - 78.47% with 243 rank, while 82.63% being highest score.

CIFAR 10 Computer Vision Data set

Kaggle

OBJECT RECOGNITION IN IMAGES

OCT 2016

Molecular Dynamics

CMS

Using Python

2015

Work Experience

Exadatum Software Services Pvt Ltd

Pune

DATA SCIENTIST Sep 2019 - Present

• Working on various research oriented NLP tasks

March 14, 2020 Ranjeet R. Dhumal · Résumé

KPIT Technologies Pune

DATA SCIENTIST

July 2018 - Sep 2019

- · Lead Data science team
- · Worked with customers like Castrol, IOCL to build data driven JRM solution for their vehicle fleet

Asquared IoT Pvt Ltd Pune

Data Scientist Feb 2017 - July 2018

- · Sound Analytics and real time sound processing
- Integral part of the team which built Equilips 4.0 product

Center For Modeling and Simulations

Savitribai Phule Pune University,

Pune

RESEARCH ASSISTANT (COMPUTATIONAL PHYSICS)

September 2015 - January 2017

Worked on a project entitled "Water Dissociation Using Ruthenium based Organo-metallic Compounds" and "Identification of Topological insulators"

Rani Laxmibai Mulinchi Sainiki shala & Jr College, Pune

Pirangut, Pune

ASSOCIATE TEACHER (PHYSICS)

• Taught Physics Subject to 11Th and 12Th standard students, And arranged scientific tours for students

July 2015 - April 2016

Education _____

MSc in Physics(Advanced Quantum Mechanics)

Savitribai Phule Pune Univeristy

2015

DEPARTMENT OF PHYSICS
• With 3.550 CGPA

BSc in Physics

Savitribai Phule Pune Univeristy

2013

FERGUSSON COLLGE, PUNE

• With 79.41%

Extra-Curricular Activities

- Participated in three days' workshop "frontiers in physics-V" at Fergusson College, Pune, organized by Astro Club
- Participant in 4 days workshop on observational astronomy by Khagol vishwa
- Participated in Science conference (Chemistry) arranged by Marathi Vidnyan Parishad

Languages _____

- Marathi
- Hindi
- English

Declaration

I hereby declare that all the information mentioned above is true as far as my best knowledge is concerned