Nikhil Sharma

Business Analyst

Data science professional with 3 years of experience in the insurance industry across US markets. Successfully worked with clients in various projects which includes predictive modeling, data engineering, visualization, text analytics, and NLP

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WORK EXPERIENCE

Business Analyst
EXL Services

11/2018 – Present *Gurgaon*

Analytics

Achievements/Tasks

- Transcription: Developed scripts for transcription of English audio files into English text using AWS boto3 API.
- Data preprocessing: Developed python scripts for removing Stop words, punctuation, Unicode characters.
- Exploratory Data Analysis: Developed python scripts for visualization of frequency graphs, word clouds for Ngrams.
- Named Entity Recognition: Customized and fine-tuned Spacy NER model for Names, Address, and monetary info.
- Masking PII Model: Developed algorithms for masking personal information like Phone, DOB, email, Card details.
- Parallel Processing: Implemented parallel processing using minimize processing time and better utilization of CPU.
- Modeling: Applied topic modeling like LDA and fine tuning.
- Sentence similarity: Applied cosine similarity on BERT embedding to extract similar sentences from documents
- Sentence Classification: Developed and fine-tuned BERT model for sentence classification using Pytorch
- Sentence Clustering: Developed Model for clustering similar context based sentences using K-means algorithm.

Keywords: *Python, NLP, BERT,LDA, NMF , Spacy, Transformers, pytorch, NER, Pandas, Gensim, Dask, seaborn, linux*

Programmer
Junati innovations Pvt Ltd

07/2017 – 11/2018 *Delhi*

Achievements/Tasks

- Noise reduction in ECG signal by applying Digital Signal Processing on ECG signal like Fast Fourier Transform, Digital Filtering methods using Python.
- Applied Principal Component analysis to reduce Noise without losing important information from ECG data.
- Research and Implementation of Heart Rate Variability analysis which used to calculate stress in the body.
- Build Neural Network model for detecting irregularities in ECG

Keywords: *Python, digital signal processing, PCA, Neural Network*

EDUCATION

B.tech
University of Delhi

06/2013 – 06/2017 *Delhi*

Courses

- Electronics Engineering

TECHNICAL SKILLS

Python | Machine Learning | NLP | Text analytics | Deep learning | Digital Signal Processing | SQL | ElasticSearch | AWS | C | cortex | MATLAB | Linux

ARTICLES/PUBLICATIONS

NLP Based Information Retrieval System
Article published by Towards Data Science

COVID-19 Open Research Dataset Challenge (CORD-19)
Kaggle Competetion

Facial Key Points Detection using CNN
Github

Three-stage robust attendance recording and monitoring using social media platform, image processing and cloud computing
Paper published by IEEEE

PROJECTS UNDERTAKEN

Evaluation of prominent reasons for call loads at large US property and casualty insurer's customer contact center @EXL (06/2019 – Present)

- Assisted client to understand prominent reasons of call loads and provided suggestions in order to reduce calls

Claim duration prediction for large US health care insurer @EXL (09/2018 – 03/2019)

- Developed a predictive model using statistical modeling techniques like logistic or XGboost to predict the claim duration thus minimize overpayments
- Developed a risk analysis framework to quantify the dollar impact of the predictions.

Classification of arrhythmia (irregularities) using ECG data @Junati innovations Pvt Ltd (07/2017 – 03/2018)

- Developed prediction model for identifying two major arrhythmia like atrial fibrillation and ventricular fibrillation with accuracy of 80%

CERTIFICATES

Cerificate of Appreciation (11/2018 – 03/2019)
Newcomer promising Award @EXL

e-Yantra Robotics Competition (eYRC-2016) (09/2016 – 05/2017)
IIT, BOMBAY