


PREM SINGH RAWAT

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 Ajmer, Rajasthan, IN

EXPERIENCE

Data Science Intern

Digite Infotech Pvt Ltd

 August 2021 – October 2021

 Bangalore, Karnataka, IN

- Responsible for performing data science and statistical experiments, make presentations and reports.
- Worked on NLP based contextual similarity where wrote python code for text preprocessing pipeline and corresponding pytest cases.
- Analysed behavior of the users on in-house product using statistical tests, sankey charts and machine learning techniques.

Deep Learning Intern

Introtuce Pvt Ltd

 February 2021 – July 2021

 Tiruchirappalli, IN

- Responsible for working on Data Acquisition, Data Cleaning or pre-processing, writing codes for deep models, training and analysing the model performances.
- Worked on Person Semantic Segmentation project for background remover. Used model architectures like U-Net, Advance-UNet where pretrained ResidualNet and MobileNetV2 models as backbone
- Applied model optimization techniques like Pruning, Quantization and student-teacher network training to get optimized tf-lite model in order to deployed into mobile devices.

PROJECTS

Car Semantic Segmentation on Images

Car Background Remover

- Solved the problem using encoder-decoder convolution network for semantic segmentation in order to get precise shape of object.
- Pre-processing or transformation of images using image augmentation techniques within tensorflow dataset input pipeline.
- Used MobileNetV2 as backbone of encoder-decoder network and trained the full architecture. Got 98% MIOU.

Factors Affecting Concrete Compressive Strength

Regression Study

- Objective is to Modeling the strength of high performance concrete using Machine Learning techniques.
- Performed univariate and multivariate analysis, feature engineering, outliers detection and removal.
- Applied Linear Regression and Random Forest with cross validation and hyperparamter tuning technique. Final R-Squared range 0.92 to 0.96 with 95% confidence level.

EDUCATION

M.Sc. Big Data Analytics

Central University of Rajasthan

 July 2019 – July 2021

B.Sc. Computer Science

Central University of Rajasthan

 July 2016 – May 2019


12th Science Maths

JNV Ajmer

 April 2015 – May 2016

SKILLS

Statistical Analysis 

Machine Learning 

Deep Learning 

NLP 

Python 

Pandas/NumPy 

Scikit-learn 

TensorFlow 

SQL 

MS Excel 

Flask 

C/C++ 

Java 

HTML/CSS 

Financial Tweets Sentiment Analysis

Stock Behavior Prediction

- Aim of this project is to predict stock price based on sentiments of tweets from top financial experts/authors.
- Extract tweets about various companies data using stocktwit API. Applied imbalance handling techniques. Applied ML and DL techniques.
- Used pretrained word vectors GloVe for word-embedding and then applied CNN for classification and got 90.57% AUC score.

Developed Car Price Prediction System

End-to-End

- Objective is to develop an algorithms for predicting price of Car based on given characteristics.
- Applied Data Cleaning, Exploratory Data Analysis, Feature Engineering and Statistical tests.
- Used ML models like Linear Regression, Decision Tree and Random Forest. Deployed best model using streamlit.

Medical Insurance Customers Analysis

Applied Statistics

- Objective is to extract and drive the valuable insight from medical cost data of peoples.
- Extract distributions and outliers present in attributes of customers with the help of scatter, box-and-whisker, density and pair plots etc.
- Performed permutation test, t-test and ANOVA test. Got statistical evidences about charges of people who smoke is different from who don't and proportion of smokers in male and female is different.

Classification of DeepWeedsX Images

Kaggle Problem

- Objective is to develop an automated system which identify the weed by their corresponding image.
- Taken dataset from kaggle and used transfer learning techniques to classify images into 9 classes of weeds.
- Got 83% validation accuracy using transfer learning through MobileNet V3 Large pretrained model.

CERTIFICATIONS

TensorFlow Developer

[Coursera - DeepLearning.AI](#)

📅 Jan 2021 – July 2021

Deep Learning

[NPTEL](#)

📅 Sep 2020 – Dec 2021

Applied NLP

[NPTEL](#)

📅 Sep 2020 – Dec 2021

Python for Data Science

[NPTEL](#)

📅 Oct 2019 – Nov 2019

Excel skills for Business

[Coursera](#)

📅 Aug 2020

LANGUAGES

Hindi



English



REFEREES

Assistant Prof. Vikas Kumar

@ University of Delhi

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