

CARLA MOESTAFA

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SKILLS

PROGRAMMING

Python
SQL

SUPERVISED MACHINE LEARNING

Regression
Classification
Natural Language Processing
Convolutional Neural Network

LIBRARIES & FRAMEWORKS

Pandas
NumPy
NLTK
Statsmodel
Scikit-learn
Keras

VISUALIZATION

Matplotlib, Seaborn, Tableau

DATA MANAGEMENT & OTHERS

git & Github
postgresql

LANGUAGES

Bahasa Indonesia
English
French

EDUCATION

Ecole Centrale de Marseille, 1992
Master Degree in Chemical Engineering & Industrial Project Management

EXPERIENCE

METIS

Data Scientist

Live Online (New York, NY)

Jan. 2021 - Mar. 2021

Produced end to end projects using statistical and machine learning algorithms.

Image Classification (on going project)

- Through this project I would like to know if I can build a convolutional neural network model to classify 4 types of running routes: city run, park run, riverside run and seaside run.
- The dataset containing 500 images was created from screenshots of running course from websites such as strava, mapmyrun, greatruns, parkruns and google search.
- Results: ongoing

Topic modeling of Maurice Leblanc books:

- The objective of this project is get the insights from Maurice Leblanc Arsene Lupin books, with regards to the topics and sentiments variations within his books.
- The text files of 10 books was imported from Project Gutenberg and pre-processed using nltk to word tokenize, remove special characters, punctuations, etc.
- 6 topics were extracted using Tfidf and NMF modeling with custom stop_words generated using text postagging.

Employee promotion prescreening:

- Employee performance appraisal is an ongoing continuous process and traditionally carried out by means of yearly evaluation/interviews. As part of this process what if data science can help with identifying the right employees to be promoted ?
- The objective of this project was to make a classification model to predict whether employees will be promoted or not. A good model could be helpful especially in a large multi regional/national companies as a pre-screening tools.
- The dataset, downloaded from kaggle , contain over 55,000 rows of data and a promotion rate of less than 10%. EDA was carried out by the help of SQL.
- Features such as age, gender, service years, training scores, department, recruitment source and employee rating were used to predict the promotion using LogisticRegression model, kFold cross validation and GridSearchCV.
- With about 36% of the promoted employees classified as FN, the model was not satisfactory. However, it has potential for improvement if we could get more information from the data and through further feature engineering and modeling.

Movie gross revenue prediction:

- A movie gross at the opening may significantly differ from the estimates prior to movie production. The objective of this project was to reassess and make a model to predict worldwide gross based on the information available at movie opening.
- BeautifulSoup was used to pull out the data from The Box Office Mojo website html files.
- Movie features such as the production budget, domestic opening gross revenue , release date, runtime and movie rating were used to predict the worldwide gross revenues using sklearn LinearRegression model, KFold cross validation and Lasso regularization.
- The best model achieved a R2 test core of 0.7 with a MAE of USD 97 million. Min-median-max values of the actual worldwide gross were 86 - 409 - 2,797 in million USD.

INPEX AUSTRALIA

Ichthys Phase 2a Pre-FEED Cost Estimating Engineer

Perth , Western Australia

Nov. 2016 - Apr. 2017

Ichthys Phase 2a Pre-FEED Study

- Reviewed and developed cost estimate norms and factors and methodology for a major multibillion dollar subsea development project.
- Reviewed PRE-FEED contractor's cost estimates and ensured they are accurate, comprehensive and in compliance with the corporate guidelines and requirements.
- Performed cost risk assessment, finalized cost estimates and report.

PTTEP PUBLIC COMPANY LIMITED

Senior Engineer, Surface Facility Cost Engineering

Bangkok, Thailand

Aug. 2010 - Oct. 2016

- Provided cost estimating expertise and advice.
- Supported M&A activities with due-diligence in Field Development and Surface Facility CAPEX.
- Supported operating and development projects with conceptual/field development plans, cost estimates, bidding evaluation, etc.

TOTAL EXPLORATION & PRODUCTION

Cost Estimating Engineer

Paris, France

May 2008 - Aug. 2010

Analyzed and reviewed project CAPEX, decommissioning and asset insurance costs and estimates for Development Engineering Division and New Ventures and Asset Management Division of Total E&P and its international subsidiaries.

Reviewed and validated cost estimates prepared by JVP's for non-operated developments.

Senior Project Control Engineer

Jakarta, Indonesia

July 2004 - May 2008

- Monitored project budget and expenditures.
- Monitored actual progress against forecast and identified potential areas at risks of delay and cost overrun.
- Oversaw efficient contract administration related to project personnel sourcing and negotiation.
- Led, managed and supervised project support team in providing development project teams with services related to supply chain, logistics, insurance and budget preparation.