NAME

Ahmed hassan

Freelancer junior data scientist

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SUMMARY

1+ years experiences ML Engineer with proven success in building successful algorithms and predictive models for different applications. Highly adept at clustering& classification, object detection & tracking, data analysis & visualization to increase business efficiency using data exploring, data cleaning.

KEY SKILLS

- Data Visualization
- Predictive Analysis
- Statistical Modeling
- Training & Mentoring
- Clustering & Classification
- Data Analytics
- Ml algorithm
- deep learning
- computer vision
- sql database
- natural language processing
- Dashboard using (Tableau)
- Excel for data reporting

PROFESSIONAL EXPERIENCE

Data Visualization & Regression Modeling

• Supervised model development, testing & validation
• Created charts in Jupyter Notebook to perform preliminary analysis & visualize data using Matplotlib

Predictive Modeling & Algorithm Development, Model Tuning

• Predicted stock price with 95% accuracy to enable the company to make trusted investments
• Devised high-performance ML systems to detect abnormality, intrusion, fraud, etc.
• House price prediction using multiple features & categorical data and achieve 99% accuracy
• Investigate movie dataset from kaggle (Data cleaning & data visualization)

Clustering & Classification

• Implemented a sentimental analysis tool to rate the service competence of companies
• Originated a recommendation engine to suggest an ideal cluster price for financial services offered by companies
• CNN architecture for classification (dog&cat) and achieve 98% accuracy
• Used VGG16(Pretrained model) to real time image classification

Computer Vision

• Implemented face recognition & tracking with high accuracy and Face swap apps for iPhone
• Created car owner recognition and car plate recognition system for parking lots
• Implement lane detection (project from self driving car nanodegree)
• Bechavior cloning project (project from self driving car nanodegree)
• Traffic sign recognition
• Yolo for Real time image recognition

Natural language processing

• Sentiment analysis using Lstm and word Embedding and achieve 93% accuracy
• image captioning using CNN&RNN architecture on coco dataset to describe any image

TECHNICAL SKILLS

- Tools: Python, C++, Tensorflow, PyTorch, PySpark, sql server, linux

- Packages: Scikit-Learn, NumPy, SciPy, Pandas, NLTK, Matplotlib, opencv

- Statistics/Machine Learning: Statistical Analysis, Linear/Logistic Regression, Clustering, Graph Theory, Regularisations

- models: CNN, YOLO, SSD, RNN, LSTM, GAN, LSTM+RNN

CERTIFICATIONS

- Received the '**machine learning**' certification from coursera

- Received the '**Deep Learning specialization**' certification from coursera

- Received '**computer vision nanodegree**' certification from Udacity

- Received '**advanced data analytics nanodegree**' certification from Udacity

- Received '**machine learning course**' certification from Udemy

- Received '**Tensorflow course specialization**' certification from coursera

- Received '**data cleaning & data visualization course**' certification from Datacamp

- Received '**opencv with python course**' certification from Udemy

- Received '**web application using django**' certification from udemy

- Received '**Yolo course**' certification from udemy

- Received '**HCIA'** certification from Huawai

Freelancer projects

1. Social media post classifies (2019)

post classifier using Bag of words technique to classify posts in social media network into lots of categorieslike politics, economics, sport, religion, technology, TV, ads, foods, health, and porno

dataset contains 25,000 posts collected from Facebook and classified into ten categories

- Using *Bag of words algorithm to count frequencies*
- Deploy NLP model on Heroku
- Naive Bayes algorithm
- Web application using Django

Link project: https://github.com/post-classifiy

2. Transfer learning (2020)

Algorithm for real time eye detection in face images is a crucial aspect in this application to detect driver behavior analysis.

Dataset from paper puplished on the internet

- Using CNN for Eye detection
- Pretrained model (Resnet) to classify images
- Opencv for real time

This project deploys on Raspberry pi to video analysis

EDUCATION

Bachelor in Computer and system engineering Department
07/2015–08/2020
Grades: very good with (81%)

ADDITIONAL INFORMATION

Languages:

Native: Arabic

Fluent: English