Mohammad Sadil Khan

Computer Vision Research Intern

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• Sadil Khan

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Summary

Aspiring Computer Vision researcher with experiences in delivering valuable insights via data analytics and advanced data-driven methods. Proficient in building statistical models using Python and R. My research interests are Computer Vision, Deep Learning, Statistical Learning Theory and Explainable AI.

EDUCATION

Katholieke Universiteit Leuven

 $Erasmus\ Exchange$

University Jean Monnet

Masters in Machine Learning and Data Mining

Chennai Mathematical Institute

Masters(M1) in Data Science: CGPA 8.69/10

Ramakrishna Mission Residential College

Bachelors in Mathematics

Leuven, Belgium

Sept 2021-Feb 2022

Saint-Etienne, France

2020-2022

Siruseri, India

2019-2021

Kolkata, India

2016-2019

EXPERIENCE

Laboratoire Hubert Curien

Saint-Etienne, France Apr 2021 - Aug 2021

Deep Learning Research Intern

Project: Detector-Encoder Autoencoders for unsupervised decomposition into visual parts.
 Developed DAE (Detector-Encoder AutoEncoder), a novel autoencoder for reconstructing images.

- o Optimized SSD with GIOU loss.
- Designed AutoLabelMe, a GUI in Python for automatic Image Annotation. It's suitable for researchers and practitioners to automatically annotate objects in images for object detection.

Accenture Digital India

Data Analyst Intern

May 2020 - Jul 2020

- Project : Intelligent Inventory Planning
- o Automatic Forecast Hedging to cover for Demand Gaps using AI
- Looking at Multiple indicators in past (Promo indicator, inventory situation, in transit, lead time volatility, demand volatility) referencing against future forecast hedging requirement
- Using this hedging to trigger additional replenishment quantity
- o Ensuring the replenishment in transit to be accounted while the additional quantity is planned
- Use of Explainable AI algorithm for complete visibility of decision making and to be able to use WHAT-IF tool in Google Cloud Platform

AnalyticsCosm India

Data Science Intern

Jun 2019 - Jul 2019

o Created an Instagram Bot to scraped large scale data from Instagram users containing account info i.e followers, followings, activity, bio, etc. Implemented XgBoost algorithm to predict the score of a batsman against another team as well as the wicket of bowlers.

Myanalyticsmentor India

Data Science Intern

Jan 2019 - Mar 2019

 Collected IPL 2018 dataset and then preprocessed it further using missing values imputation and outlier detection. Implemented Cluster Analysis to predict if an user will follow you back once you follow them

PROJECTS

- Explainable K-Means Python Library: Developing a python library for interpreting KMeans clusters using Decision Tree.
- **Histopathologic Cancer Detection**:Created an Image Classifier to identify metastatic cancer in small image patches taken from digital pathology scans and applied Occlusion Analysis to explain the parts of the image are generally responsible for positive identification.
- Used Cars Price Prediction: Performed feature engineering and web scraping for missing value imputation and implemented XgBoost algorithm to predict the price of an used cars based on important features.
- Multiple Minimum Support for Apriori Algorithm: On UCL document dataset, I have implemented Multiple Minimum Support for Apriori algorithm from scratch using Python.

Skills

Python Machine Learning Keras
R Deep Learning Pytorch
Julia Computer Vision Tensorflow
Linux Image Processing OpenCV

Interpersonal Skills

Leadership Critical Thinking
Communication Team Work
Integrity Decisiveness
Flexibility Compliance

Courses

- o Generative Adversial Networks, Coursera, 2020-Present
- o Deep Learning Specialization, Coursera, 2019-2021
- o Machine Learning A-Z: Hands on Python and R in Data Science, Udemy, 2019

Languages

- o English (C1)
- French (A2)
- o Hindi (C2)
- o Bengali (Native)