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M KRISHNAKANT ACHARY

Data Scientist: Artificial Intelligence

Malkangiri, Odisha, 764048 918658626440

in https://www.linkedin.com/in/m-krishnakantachary/

acharymkrishnakant@gmail.com

Data Scientist familiar with gathering, cleaning and organizing data for use by technical and nontechnical personnel. Advanced understanding of statistical, algebraic and other analytical techniques. Highly organized, motivated and diligent with significant background in building models and providing insights.

Work Experience

2021-07 - Current Data Scientist: Artificial Intelligence

IBM, Bangalore, Karnataka

- Designed and developed an **anomaly detector** to send alerts when a credential stuffing attack is going on IBM and its Clients.
- Provided **insights on the attack** such as attacking IP addresses and the target TenantID to pinpoint the attack and resolve the issue at the earliest. The detector also provides alerts and insights on other kind of anomalies related to login events such as server failure, authentication error etc.

2020-05 - 2020-07 Machine Learning Intern

IIT Kharagpur, Kharagpur, West Bengal

- Applied **Tchebichef moments** for quantitative analysis of soil components, i.e., Nitrogen, carbon, and LOI, based on raw NIR spectra.
- Applied Tchebichef Moment-Partial Least Squared regression (TM-PLS) and compared the results with i-PLS and PLS regression results.
- Preprocessing steps included removing the outliers, converting the raw spectral data into Grayscale images, extraction of the orthogonal moments using tchebichef polynomial, scaling the moment values, and feature selection for TM-PLS regression.
- The obtained R2 scores for test data of size 60 were 83.1%, 82.1%, and 76.6%, from the TM-PLS method, in estimating N, C, and LOI.

2019-05 - 2019-07 Data Science Research Intern

Nippon Koei Co., Ltd, Ibaraki, Japan

- Analyzed the effect of **climatic change** on rice production in Punjab and Odisha and proposed unique adaptive solutions for both areas.
- Created five different weather parameters from raw weather data and calibrated threshold levels for loss in rice production.
- Learned various Bias-correction methods and corrected the Near-surface **Specific Humidity** bias for six GCM's weather data.
- Analyzed **humans' survivability** in New-Delhi, due to increasing wet-bulb temperature during summer by the end of the 21st century.

2020-06 - 2020-09

Machine Learning Intern

Safety Analytics and Virtual Reality lab, IIT Kharagpur, Kharagpur, West Bengal

- Designed a two-step sequential machine learning model to improve the accuracy for a small dataset and compared it with an ANN model.
- Worked primarily on eye-tracking data from Tobiie pro eye sensor to estimate the Reaction Time, while playing Virtual Reality games.
- Each layer of the neural network was pre-trained using autoencoders, and the pre-trained weights are used for final training.
- The obtained R2 scores for the ensemble sequential model was 91.34%, whereas the R2 score for the trained ANN model was 84.65%.

Skills and Expertise

Programming Languages: Python, C++, R

Tools: SQL, Git, Elasticsearch, Tensorflow, PyTorch, Keras, Scikit-learn, MS office Software: SQL, Git, Tensorflow, PyTorch, Keras, Scikit-learn, Ensemble Learn, C++ STL



Programming and Data Structure | Data Analytics | Deep Learning Foundations and applications | Regression and Time Series Modelling | Applied Machine Learning in Python | Algorithmic Toolbox | Probability and Statistics | Partial Differential Equations

Education

2016-07 - 2021-05

Bachelor & Master of Technology: Agricultural And Food **Engineering**

Indian Institute of Technology - Kharagpur, West Bengal

GPA: 8.48/10

Intermediate (12th): Science 2013-04 - 2015-05

Jawahar Navodaya Vidyalaya-1, Malkangiri - Malkangiri, Odisha Score: 91%

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