Pritam Dey | Data Science

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Experience

- Data Scientist at Dr. Reddy's Laboratory (Aug 2021 May 2023)
 - Google Of Investigations: Building a search engine from scratch that relates to various incident investigations in the company.
 - Stability Failure Prediction: Predicting whether a product will fail in a particular test based on few past timepoints (3-5) and historical data.
 - Cost of Poor Quality: Detecting the reasons behind poor quality in the manufactured batches of a drug.
 - Smart Scheduler: Creating an intelligent scheduler that schedules the visits of a medical representative for entire month using genetic algorithm
 - Brand Gini: Suggest relevant products/brands based on their past prescriptions brand popularity etc.
 - o RCA: Root Cause Analysis of poor performance of Head Quarters
 - Visual-Aid Analysis: Analyse Visual Aids shown to the doctors based on their colour balance, abundance of text / images, location of objects to measure how much visually appealing the slides are.

Projects

- Automatic team detection for any Bundesliga football match (March April 2022) Key points: Use YoloV7 for human, ball detection. Apply a sequence of classical computer vision + ML methods to detect specific jersey colors. I was able to overcome some critical challenges such as video feeds containing different lighting conditions (day / night), different colors of grass and jerseys of referees.
- Predicting survival chances of passengers in Titanic (March 2020) Applying various machine learning tools like decision tree, random forests, extreme boosted trees, support vector machine, KNN and finally creating an ensemble model with all the classifiers
- ➤ Inspecting insurance availability in Chicago (October November 2019) Validation of basic parametric assumptions and transforming data to assure normality. Detection and Rejection of outliers. Basic linear regression and inference
- Analysis of Egyptian skull data: (March May 2020) Applying linear discriminant analysis to classify skull of different age, Factor analysis
- ➤ E2E NLG challenge (Jan May 2021) Building a transformer based model from scratch to convert structured data about restaurants into text.

Technical Skills

- Statistical Modelling and Inference
- Robust regression techniques
- Machine Learning and AutoML.
- Deep learning (NLP / NLG, Computer Vision)
- Programming languages: Python, R, MATLAB, C, C++
- Libraries/Frameworks: Pytorch, Tensorflow
- Reinforcement Learning
- Visualization: Plotly, Matplotlib etc.
- Dashboarding: Streamlit, Gradio
- Database Management: SQL

Education and qualifications

➤ Indian Statistical Institute – (2019 - 2021)

Master of Statistics

Grade: 73%

- ➤ Ramakrishna Mission Residential College, Narendrapur (2016 2019)
 - o BSc (Hons.) Statistics

CGPA: 8.88

Ramakrishna Mission Vidyalaya, Narendrapur – (2014 - 2016)

Grade: 88.8% in WBCHSE class XII-Science

Extra-Curricular Activities

- Music Playing guitar, Tabla, Mouth organ, Composing music
- **Creative Involvement** Co-director in Inter Bhavana Drama Competition in Ramakrishna Mission Residential College
- Sports Badminton, Table tennis, Chess