

Premasagar Patra

Data Scientist

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🔗 <https://github.com/Prempatra15>

SUMMARY

I am a Data Science enthusiast who has been trying to explore this domain for the past 1 year. Familiar with gathering, cleaning, organizing, and visualizing the data. Experienced in creating data regression models, using predictive data modeling, and analyzing data mining algorithms to deliver insights and implement action-oriented solutions to complex business problems.

WORK EXPERIENCE

- Experience with 10+ Real-time data science-related projects on Health, Finance, Churn modeling, Industry problems, etc.

PROJECTS

3 POC PROJECTS

- Fetal health - Load dataset, visualize(EDA), Data preprocessing (NAN, OUTLIERS, DISTRIBUTIONS), modeling dataset with ML algorithm, evaluation with all the ML algorithms GRADIENT BOOST gave the best accuracy of 94%.
Dataset Source - KAGGLE
- Backorder prediction - Load dataset, visualize(EDA), Data preprocessing (NAN, OUTLIERS, DISTRIBUTIONS), modeling with DL algorithms, evaluation with ANN gave the best accuracy of 96%.
Dataset Source - KAGGLE
- Emotions dataset using NLP - Load dataset, Data preprocessing(Tokenization, Text cleaning(removing punctuations, removing stopwords, stemming), vectorization, applying TF-IDF, applying Naive Bayes ML algorithm, the best accuracy was 79%.
Dataset Source - KAGGLE

SKILLS

- Python
- Numpy
- Pandas
- Matplotlib
- Seaborn
- Exploratory Data Analysis
- Data Preprocessing
- Machine Learning
 - Regression Analysis
 - Classification - Logistic Regression, Decision Trees, SVM, KNN, Naive Bayes
 - Clustering, K-means
 - Ensemble Models - Random Forest, Bagging, Boosting
- Deep Learning
 - ANN
 - CNN
 - RNN
- Computer Vision
- NLP
- MySQL
- Tableau

EDUCATION

Master of Science in Statistics <i>Government Autonomous College</i>	2019 – 2021
Bachelor of Science in Mathematics <i>Government Autonomous College</i>	2014 – 2017
Council Of Higher Secondary Education, Odisha <i>Vikash Junior College</i>	2012 – 2014
Board Of Secondary Education, Odisha <i>Fakir Mohan Bidyapitha</i>	2009 – 2012

COURSES

Full Stack Data Science & AI <i>Naresh I Technology</i>	2021 – 2022 Hyderabad, India
Machine Learning Training <i>Internshala</i>	2022

ACADEMIC PROJECT

Survival Analysis on Heart Transplantation	04/2020 – 08/2021
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In this study, I used the Kaplan-Meier method (**which is used to analyze 'time-to-event' data. The outcome in KM analysis often includes all-cause mortality, but could also include other outcomes such as the occurrence of a cardiovascular event**) led to the result that 60 patients have undergone heart surgery, out of which 45 patient has died. The median survival time is 285 with 95% CI of [153,852] sample of survival times. Though the median survival time is 285, the patients who were treated for heart transplants person have a 50% chance of surviving till 285 days to the data.

Heart transplantation is evolving and now has excellent long-term outcomes. It is the ideal solution for intractable end-stage heart failure in eligible patients. Improvements in our understanding of the alloimmune activation response and its pathways have led to the development of new immunosuppressive agents and better regimens.

In the future, advances in immunosuppression and the use of more specific monitoring tools are likely to lead to significant improvements in outcomes. With ongoing research in the scientific and clinical communities, it is hoped that transplant physicians would have the tools to induce immune tolerance, greatly improving outcomes further.