

P.Poongodi

Data Analyst

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Profile

Data Analyst working in Rehoboth academics and services with 8 months of experience in Education and research Domain. Specialized with Data Analytics, Machine Learning, Excel, Tableau, Power BI, SPSS.

Work Experience

DATA ANALYST | REHOBOTH ACADEMICS AND SERVICES| Mar 2023 - Present

Rehoboth academics and services (17th March: Till now)

- I have done data analysis for several research papers from medical domains especially for doctors in order to publish their papers. Have done data analysis for PhD research as well.
- Used Bivariate/Multivariate analyses the relationships, Data Cleaning and Visualization, transforming unprocessed interpretations into required features using statistical or machine learning approaches
- Tools used: Python, R, SPSS, Advanced Excel, Tableau , Power BI and SQL, machine learning algorithms, statistical tools like chi square test, logistic regression, linear regression, t test, paired sample t test, correlation, Smart PLS, AMOS
- The methods discussed in our projects project consist of a number of classification methods also like Naïve Bayes, K-NN, Decision Trees etc as well as some “Ensemble” learning techniques where we attempt to improve the accuracy by combining several models for research purpose.
- Created Dashboards for all Metrics for easy data visualization using tableau for presentations
- Some companies came to us for data analysis where we helped them to analyse the KPI and trend in business line.

Assistant professor (physics): united institute of technology august 2015 - May 2016

- Utilized innovative teaching methods to encourage student learning objectives.
- Built strong rapport with students through class discussions and academic advisement.
- Maintained classroom structure and student engagement.
- Developed curriculum according to college standards along with my senior staff
- Advised students on crucial academic decisions such as choosing their career and their ambitions by discussing and identifying their interests and strengths.
- Collaborated with a team of faculty to plan for exam duties, time table for continuous assessment test for students and schedule duty plan to teachers.
- Created new lesson plans based on course objectives.
- Planned and executed activities to promote students activities in their education.

Lecturer (physics): Avinashilingam University for women January 2016 - October 2017

- Maintained classroom structure and student engagement.
- Developed curriculum according to college standards along with my senior staff
- Advised students on crucial academic decisions such as choosing their career and their ambitions by discussing and identifying their interests.

Teacher (Physics) private tuition center Jan 2018-jun 2021

- Collaborated with a team of faculty to plan for exam duties, time table for continuous assessment test for students and schedule duty plan to teachers.

Projects

Advanced Excel

- Used Excel to analyze the sales based on various product categories.

Python

Project: App Rating Prediction

- Using Python I build a model to predict the app rating. The problem was to identify the apps that are going to be good for Google to promote. App ratings, which are provided by the customers, is always a great indicator of the goodness of the app.
- In this project I have done EDA(missing value treatments, outlier treatments, preprocessing etc). Performed univariate and bivariate analysis for different features. Finally build a Linear Regression Model and Reported the R2 value on the train data set.

Machine learning

Project : Income Qualification.

- Identified the level of income qualification needed for the families in Latin America.
- Identified the output variable.
- Checked if there are any biases in my dataset.
- Predicted the accuracy using random forest classifier.
- Checked the accuracy using random forest with cross validation.

R Programming

Project: Analysis of Sales Report of a Clothes Manufacturing Outlet

- In order to automate the process of recommendations, I analyzed the given attributes of the product, like the style, season, etc., and came up with a model to predict the recommendation of products (in binary output – 0 or 1) accordingly.
- Analyzed the sales data and predict the trend of total sales for each dress for an extended period of three more alternative days.
- Also, to increase sales, analyzed the attributes of dresses and found which are the leading factors affecting the sale of a dress.
- Regularized the rating procedure and found its efficiency, using different algorithm like Simple linear Regressions, Support Vector Machine, naïve Bayes...finally found that if the rating of the dress affects the total sales using the above models.

Tableau

Project: Comparative Study of Countries

- Created a dashboard to compare all the parameters for different countries, to strategize market penetration and to target new customers.

Power BI

Project: Comparison of Region Based on Sales

- Helped the organization by creating a dashboard to visualize the sales comparison between two selected regions.
- Data Manipulation and Reporting with Power BI
- Constructed a consolidated and interactive Power BI report that will allow Zomato to quickly assess the required data.

SQL

- Using SQL I have generated reports on employee details, their performance, and on the project that the employees have undertaken, to analyze the employee database and extract specific data based on different requirements.
- Found the maximum salary of the employees and ensure that all jobs are meeting the organization's profile standard.
- Using SQL calculated bonuses to find extra cost for expenses. Thus that will raise the overall performance of the organization by ensuring that all required employees receive training.

Capstone Project:

- Performed extensive Exploratory Data Analysis (EDA), feature engineering, and preprocessing on the Zomato Dataset.
- Analyzed the geographical distribution of the restaurants and identified the cities with the maximum and minimum number of restaurants.
- Found out the ratio between restaurants that allow table booking vs. those that do not allow table booking.
- Found out the percentage of restaurants providing online delivery.
- Found out the percentage of restaurants providing online delivery.
- Calculated the difference in number of votes for the restaurants that deliver and the restaurants that do not deliver, identified the top 10 cuisines served across cities.
- Finally found the highest restaurant in the city and ratings are distributed among the various factors.

Tools

- Advanced Excel , SQL
- **Programming:** Python for Data Analytics (NumPy, Pandas, Seaborn, Matplotlib, Scikit learn), R programming
- **Visualization:** Power BI, Tableau
- **Statistical tools:** SPSS (Smart PLS, AMOS)

Skills

- Data Analytics, Data Visualization, Machine Learning, Statistics

Education

- **Master of Philosophy (Physics)** | Avinashilingam University for Women (2014) |Percentage: 78%
- **Master of Science (Physics)** | PSG College of Arts and Science (2012) |Percentage: 84.5%

- **Bachelor of Science (Physics)** |PSG College of Arts and Science (2010)| Percentage: 80%

Certification

- Master's Program - Data Analyst : Simplilearn Certified in collaboration with IBM - 2022
- Introduction to Data AnalyticsBusiness Analytics with Excel Tableau Training and Power BI
- Programming Basics & Data Analytics with PythonData Science with R
- Data Analyst Capstone

Activities and Interests

- Cooking, Travel, Gardening