Rakesh Kr. Bairwa

M.Sc. - Computer Science
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Educational Qualification

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2023	M.Sc. Computer Science	NIT, Trichy	0*
2021	B.Sc. Statistics (Hons.)	Ramanujan College, University of Delhi	8.6
2018	Class XII	G.S.V School, CBSE	73%
2016	Class X	The Pine crest, CBSE	8.6

Academic Achievements

- Secured **Rank 1** in Interhouse School **One act play Competition** in the School level.

Internship Experience

- **Freelancing at Chegg Inc:** *Sept 2020 - Dec 2021*

  Underwent a Freelancing program at Chegg as Subject matter expert. The Role involved solving statistics problems posted by student from statistics background across the globe. We have to provide an quality solution within a time frame of 2 hour & make sure to get a good feedback, without affecting the honour code.

- **Intern at The Spark foundation:** *Jun 2021 - July 2021*

  Worked on the iris dataset, had applied decision tree model over it, and got 0.9361 accuracy (via cross validation method).

Areas of Interest

Data Structures & algorithms, OOPs, Software Development, Linux, Applied statistics & Analytics.

Other Projects

- **Movie recommendation system** *Jan 2022*

  It's a content based recommendation system where data is taken from very famous dataset movie_lens mk-100k, that is publicly available, here https://grouplens.org/datasets/movielens/100k/. I just took 2 CSV files from it that is "u.data" & "u.items" for my model and then finding most co-related movies.

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- **Gradient descent based forcasting**   *Dec 2022*
  Build own multiple regression model without using sklearn library and used this following dataset (from kaggle) : https://www.kaggle.com/mirichoi0218/insurance. It's a medical cost personal dataset where our objective is to forecast Insurance.

- **A study of Complaints Against Police Personnel:**   *Feb 2021*
  This project, is done using MS Excel, R & Python our major approaches are Regression model, ANOVA & Time Series, here we compare data for cases against police personnel in last 10 years for India and predict future values. Secondly, we also compare data for different states in India in past 10 years and find out top 4 states with highest cases against police personnel and compare them among themselves.

- **COVID'19 A Comparative study:**   *June 2020*
  This project is done on MS excel, here we observe & compare the pattern of impact of COVID'19 pandemic in Indian states. As well we compare how much India is affected compare to other countries. We find relation b/w recovery rate & hospital bed, consistency b/w no. of deaths in a country & the age groups, track benefits of lockdown, investigate change in air quality. Our major approaches are Hypothesis testing & ANOVA.

- **Shopping in digital Era:**   *June 2020*
  In this project, we surveyed around160 individuals from Delhi. To study various trends & patterns related to consumer perception and tires to touch every segment such as, satisfaction levels, preference & comparison of online & offline modes of shopping. Our inductive research attempted to find average expenditure, frequency of shopping, reliability on modes of shopping. Project is done in Ms Excel. we perform Descriptive Statistics, testing of hypothesis, Regression model & ANOVA, to achieve the objective.

Technical Skills and Certifications

- Programming Languages   : C, C++, Python
- Engineering Software   : MySQL, HTML, CSS, R
- Other Software   : Bash, Microsoft Office, Visual Studio, IBM SPSS
- Certifications   : CS50 (Edx offered by Harvard University/Online)

Positions of Responsibility

- **Junior Coordinator, Documentation team, Encephal:**   *Aug 2018 - Jan 2021*

  Worked as a Junior Coordinator of Documentation team, Encephal. It is departmental society of Ramanujan college (DU), where we conducts statistical surveys regularly, As a part of Documentation team our objective to make & manage documentation of project that our team working on, and coordinating with other teams (Questionnaires, Survey & Analytics).

- **Assistant, Path-Shala society:**   *Sep 2018 - Jan 2021*

  Worked as a teaching assistant in Path-Shala society at Ramanujan college (DU). here we have to teach underprivileged student twice a week after college classes.

Extracurricular Activities

Cultural Activities:
- Organised **Mock Stock'19** in **Ramanujan College** in **College fest'19**.

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