

# RAMANA BANSAL

## SKILLS

- MS Excel
- SQL (Structured Query Language)
- Python (with Pandas, Matplotlib)
- Database Management Systems (MySQL)
- Data Visualization (Excel, Tableau)
- Statistical Analysis
- C, C++, Java
- Data Cleaning and Preparation
- Qualitative Research
- Critical thinking and Problem Solving

## PROJECTS

### RISK ANALYTICS FOR BANKING SERVICE

- Conducted Exploratory Data Analysis (EDA) on previous loan application data using **Google Colab (Python)**, uncovering critical insights on loan defaulting trends and patterns; enabling strategic risk mitigation and enhanced loan approval process.
- Conducted thorough **data cleaning** and preprocessing for two loan application datasets, comprising of 0.3 to 1.5 million rows and approximately 122 features.
- Executed **Univariate, Bivariate, and Segmented Univariate Analysis** accompanied by insightful visualizations using **numpy** and **matplotlib**.

### CAR FEATURES AND PRICE-PROFITABILITY

- Employed **MS Excel** to process, visualize, and analyze data, investigating the correlation between car prices and approximately 16 features.
- Leveraged advanced Excel functionalities, including **Pivot Tables, Conditional Formatting, Regression Analysis, and Correlation**, to ensure precise and thorough analysis of the data.

### METRIC ANALYSIS OF A DIGITAL COMMUNICATION PRODUCT

- Utilized **MySQL** to conduct analysis of growth and engagement metrics of a product by leveraging relational data extracted from three interconnected tables.
- Applied a diverse range of SQL queries, including Data Manipulation Language (**DML**) operations, Aggregators, **CASE WHEN** statements, **Window functions**, and **Inline queries** to extract relevant information efficiently.

### IMDB MOVIE ANALYSIS FOR FREELANCE YOUTUBER

- Employed **MS Excel** to meticulously clean and process data for approximately 5000 movies from the IMDB database.
- Conducted in-depth analysis and visualization of the data, extracting valuable insights into movie trends, actors, directors, and topics that drive traffic. Applied advanced Excel functions, including **Index-Match, VLOOKUP**, and **Pivot Tables**, to enhance data interpretation.

## WORK EXPERIENCE

### DATA ANALYTICS TRAINEE – Trainity, India

Mar 2023 – July 2023

- Acquired proficiency in diverse **Data Analysis tools** and techniques, including MS Excel, MySQL, Tableau, Exploratory Data Analysis (EDA), and Data Cleaning and Preprocessing.
- Demonstrated expertise by successfully completing and presenting five impactful **data analysis projects** spanning Operation Analytics, Hiring Process Analytics, Movie Analysis, Automotive Industry, and Banking, drawing valuable business insights.

### FREELANCE WRITER – Self Employed

Dec 2019 – Present

- Proficient in **researching** and composing content tailored to specific client requirements.
- Ensured text integrity and maintained consistent content quality, achieving a plagiarism score consistently below 10%.

### INTERN – HP Inc., Bangalore

Feb 2017 – July 2017

- Developed a comprehensive **Python library** to **automate** diverse HP Printer Test Cases, resulting in a remarkable 70% reduction in test time.
- Collaborated closely with the **Quality Assurance Team** to automate and validate test scripts, ensuring efficiency and accuracy.
- Conducted Role Based Access Control (RBAC) and Account Policy Testing for enhanced security measures.

## EDUCATION

### MASTER OF ARTS (PSYCHOLOGY) – IGNOU, New Delhi –Chandigarh Regional Centre

Aug 2023

Major: Clinical Psychology

Perc : 75.55%

Relevant Coursework: Statistics, Research Methodology, Research Project

### BACHELOR IN ENGINEERING – Chitkara University – Punjab

July 2017

Major: Electronics and Communication Engineering

CGPA: 7.88