

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

Analysis of AMCAT Data

About me

I am Dixit Negi, a graduate of Bachelor In Computer Application and I want to learn more about Data Science because I'm curious about how machine learning works in the apps I use every day. I am eager to explore how data can provide insights and improve experiences.

Although I currently do not have any work experience I am dedicated to developing my skills and knowledge in this exciting field. I believe that with the right learning and practice I can contribute meaningfully to data science projects in the future. Have a look at my portfolio below:

LinkedIn & **GitHub**



Objective

AMCAT (Aspiring Minds Computer Adaptive Test) is a test that helps people get jobs. In this project we analysis the salary of a aspirant who give the exam. In this project we have one csv file which have 3998 rows and 39 columns. AMCAT team were able to gather concrete data with which they hoped to understand what has become of candidates since they took part in the tests and find interesting patterns from the study..



Analysis Workflow

- Introduction Of Data
- Data Types And Fixing the type of data
- Univariate Analysis
- Bivariate Analysis
- Research Questions :
 - Times of India article dated Jan 18, 2019 states that "After doing your Computer Science Engineering if you take up jobs as a Programming Analyst, Software Engineer, Hardware Engineer and Associate Engineer you can earn up to 2.5-3 lakhs as a fresh graduate." Test this claim with the data given to you.
 - Is there a relationship between gender and specialization? (i.e. Does the preference of Specialisation depend on the Gender?)



Introduction Of Data

Introduction of data

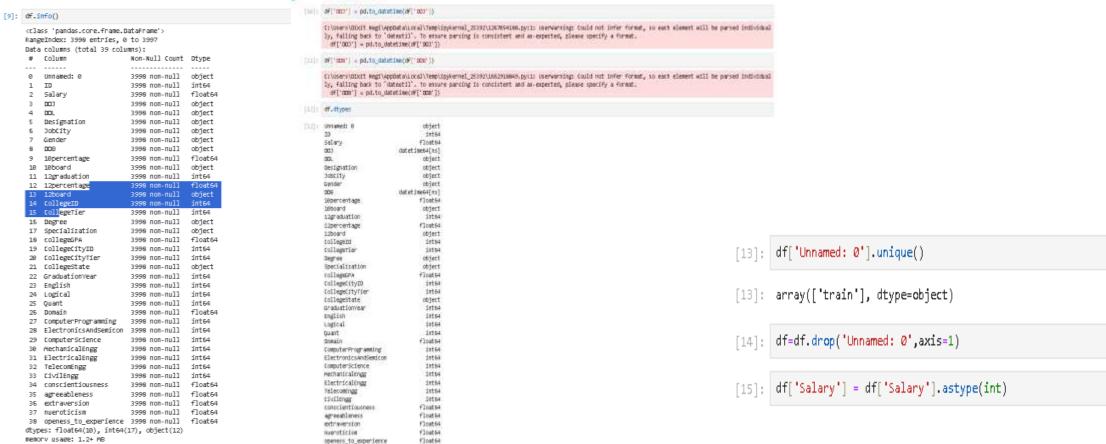
```
[4]: df.shape
[4]: (3998, 39)
[5]: df.size
[5]: 155922
[6]: df.columns
[6]: Index(['Unnamed: 0', 'ID', 'Salary', 'DOJ', 'DOL', 'Designation', 'JobCity',
             'Gender', 'DOB', '10percentage', '10board', '12graduation',
            '12percentage', '12board', 'CollegeID', 'CollegeTier', 'Degree',
            'Specialization', 'collegeGPA', 'CollegeCityID', 'CollegeCityTier',
            'CollegeState', 'GraduationYear', 'English', 'Logical', 'Quant',
            'Domain', 'ComputerProgramming', 'ElectronicsAndSemicon',
            'ComputerScience', 'NechanicalEngg', 'ElectricalEngg', 'TelecomEngg',
            'CivilEngg', 'conscientiousness', 'agreeableness', 'extraversion',
            'nueroticism', 'openess_to_experience'],
           dtype='object')
[7]: df.isnull().sum()
[7]: Unnamed: 0
     ID
     Salary
     Designation
     JobCity
     Gender
     DOB
     10percentage
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     12graduation
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     CollegeID
     CollegeTier
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    CallegeState
    GraduationYear
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    Logical
    Quant
    ComputerProgramming
    ElectronicsAndSemicon
    ComputerScience
    MechanicalEngg
    ElectricalEngg
    TelecomEngg
    CivilEngg
    conscientiousness
    agreeableness
    extraversion
    nueraticism
    openess_to_experience
    dtype: int64
[8]: df.duplicated().sum()
                                                                                                                               向个↓古早前
```



Data Types And Fixing The Types Of Data

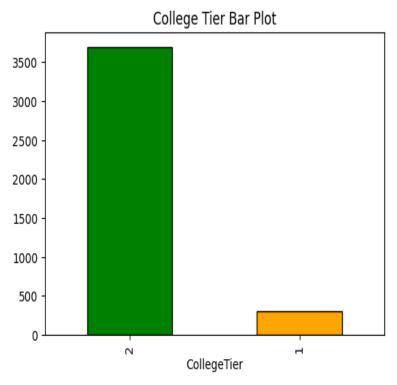
Data Types And Fixing the type of data



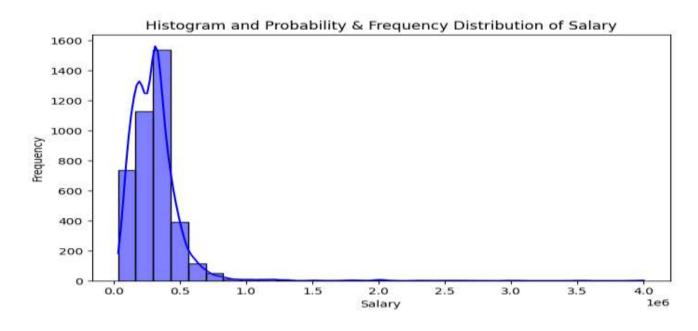
divises object



Univariate Analysis



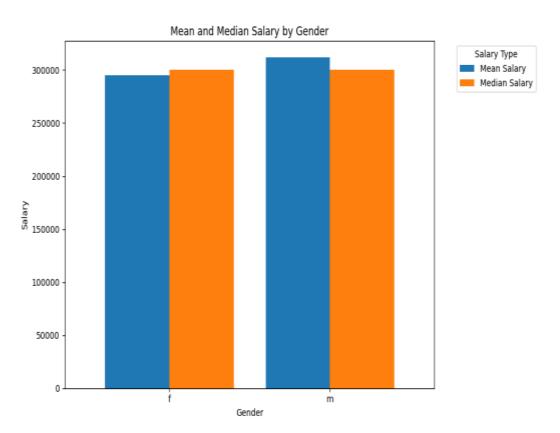
In College Tier more candidates come from Tier 2 colleges as compared to Tier 1 colleges.



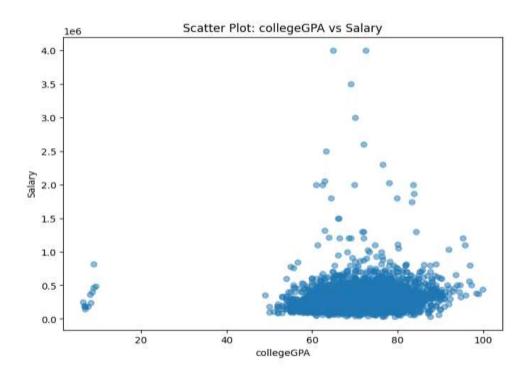
In salary Right-skewed distribution with most prices concentrated towards the lower end.



Bivariate Analysis



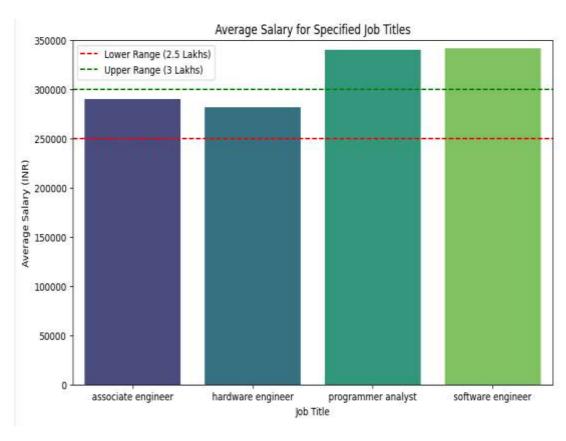
As we see the mean of the salary of male will be higher then female but the midian are same



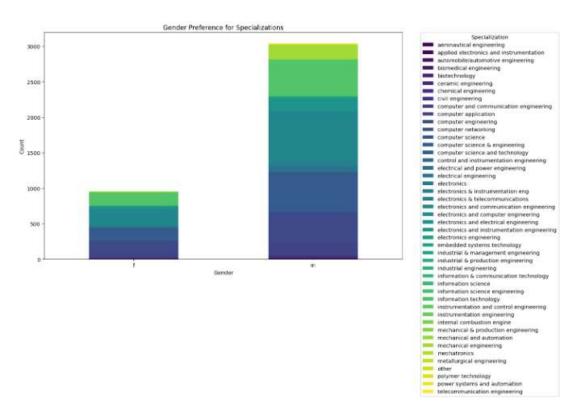
Found a positive correlation between college CGPA and salary.



Research Questions



Average salary for spececified job title is between 2.5 lpa to 3lpa



It show Gender Preference for Specializations



Conclusion

Following the insights generated from my analysis, I can make the following conclusions:

- More candidates come from Tier 2 colleges as compared to Tier 1 colleges.
- Salary Analysis:- The average salary for those who done our degree in M.Tech./M.E.
- Most of the people who have the Location of the job city is Bangalore.

For the full analysis check my **Github** repository.



THANK YOU



