

INNOVATION. AUTOMATION. ANALYTICS

PROJECT ON

EDA - AMCAT Data Analysis Project.

Presented by: Shivam Dubey

About me

- Background ? (B-tech)
- I am a recent graduate with a B.Tech in Computer Science and Engineering. My passion for technology and data has driven me to specialize in Artificial Intelligence and Machine Learning. I possess strong proficiency in programming languages and frameworks such as Python, TensorFlow, and scikit-learn, which I have applied to develop and deploy AI-driven applications.
- Why you want to learn Data Science

I am passionate about extracting insights from data and making datadriven decisions. I believe that data science combines my love for mathematics and programming, allowing me to contribute to solving real-world problems and enhancing business operations.

Share your linkedin profile urls



About me

- Previous work experience
- · AI/ML Intern
- Antihak.AI (Feb 2024 May 2024)
- Developed "SafeTransact," a secure transaction management system to combat financial fraud using Python and machine learning.
- Data Science Intern
- Suvidha Foundation NGO (Dec 2023 Feb 2024)
- Contributed to the Digital Summarizer Project, focusing on text summarization and Seq2seq model training in NLP and Deep Learning.
- Share github profile urls



Agenda (This should be the PPT flow)

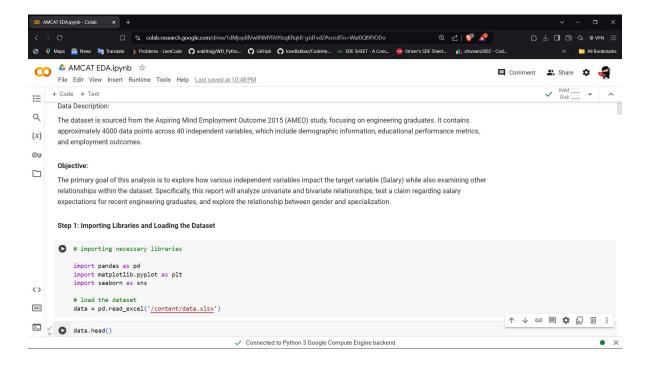
- Business Problem and Use case domain understanding(If Required)
- Objective of the Project
- Web Scraping Details (Websites, Processor you followed)
- Summary of the Data
- Exploratory Data Analysis:
- a. Data Cleaning Steps
- b. Data Manipulation Steps
- c. Univariate Analysis Steps
- d. Bivariate Analysis Steps
- Key Business Question
- Conclusion (Key finding overall)
- Q&A Slide
- Your Experience/Challenges working on Web Scraping Data Analysis Project.



Business Problem and Use Case Understanding:

The project aims to perform Exploratory Data Analysis (EDA) on the AMCAT dataset to uncover insights regarding employment outcomes for engineering graduates. This will help in understanding factors affecting salaries and job placements.

Use Case: Analyzing AMCAT data to provide insights for students and educational institutions.





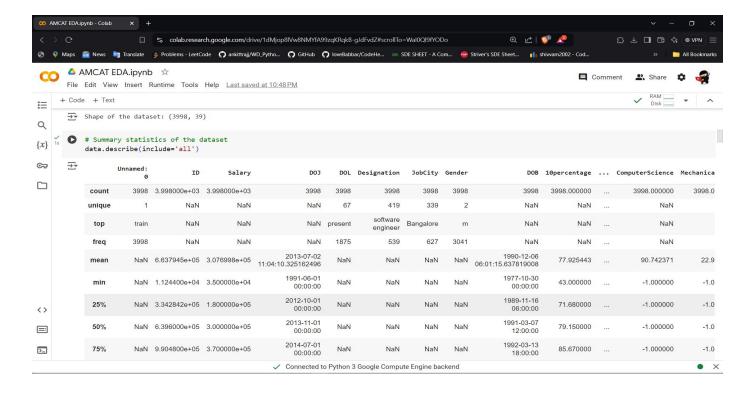
Objective of the Project

 To perform Exploratory Data Analysis (EDA) on the AMCAT dataset, focusing on the target variable 'Salary' and identifying key trends and insights.



Summary of the Data

 The AMCAT dataset contains approximately 4,000 candidates with around 40 variables, including demographic details, academic performance, AMCAT test scores, and job outcomes.





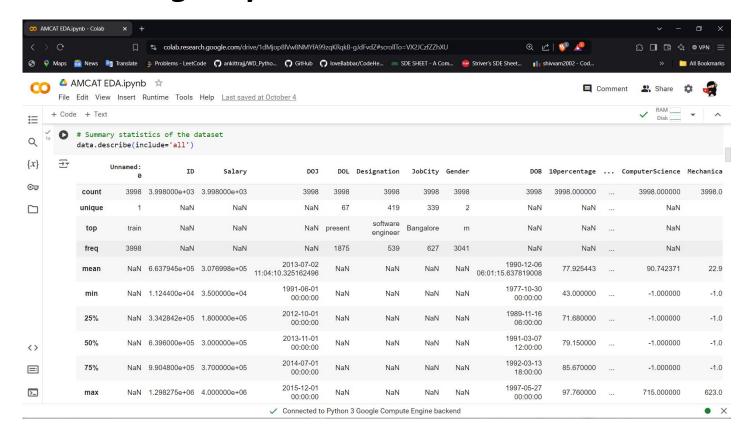
Exploratory Data Analysis

- Data Cleaning Steps: [Briefly outline your data cleaning steps]
- Data Manipulation Steps: [Outline how you manipulated the data for analysis]



Exploratory Data Analysis:

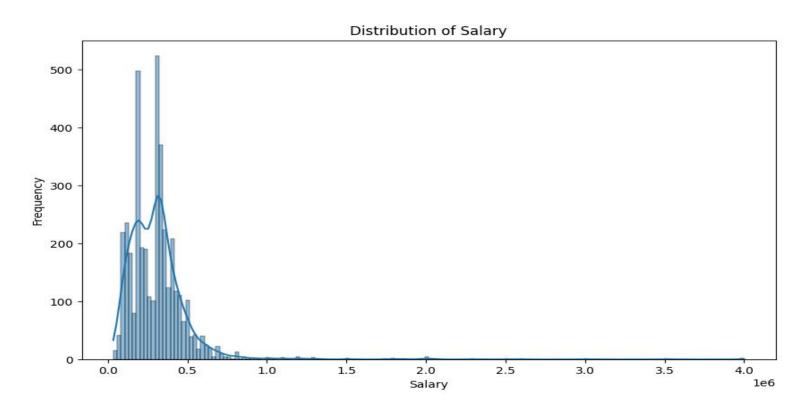
a. Data Cleaning Steps





• **Exploratory Data Analysis:**

B) Data Manipulation Steps

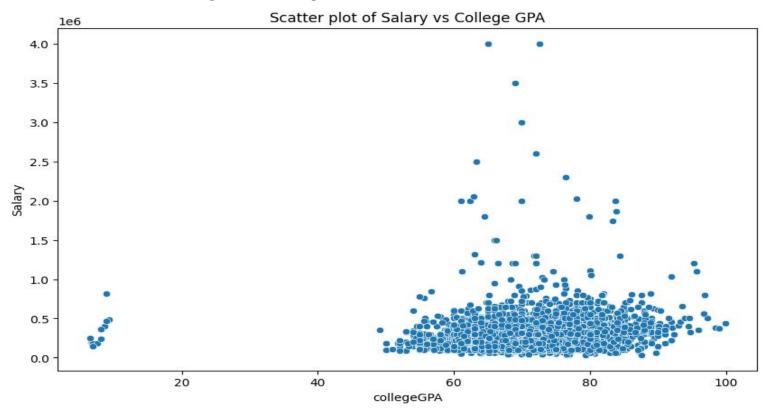




• **Exploratory Data Analysis:**

C. Univariate Analysis Steps

Conducted analysis using histograms, boxplots, and PDFs to understand the distribution of each feature.



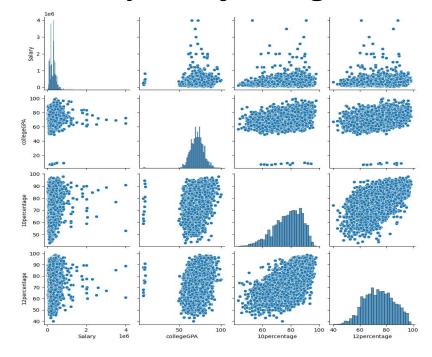


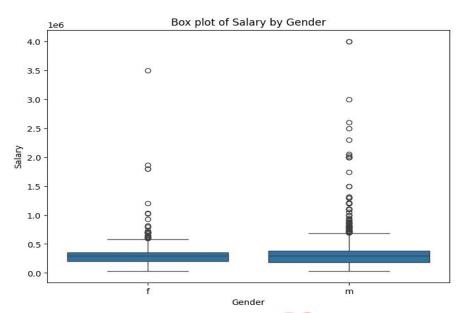
• **Exploratory Data Analysis:**

D). Bivariate Analysis Steps

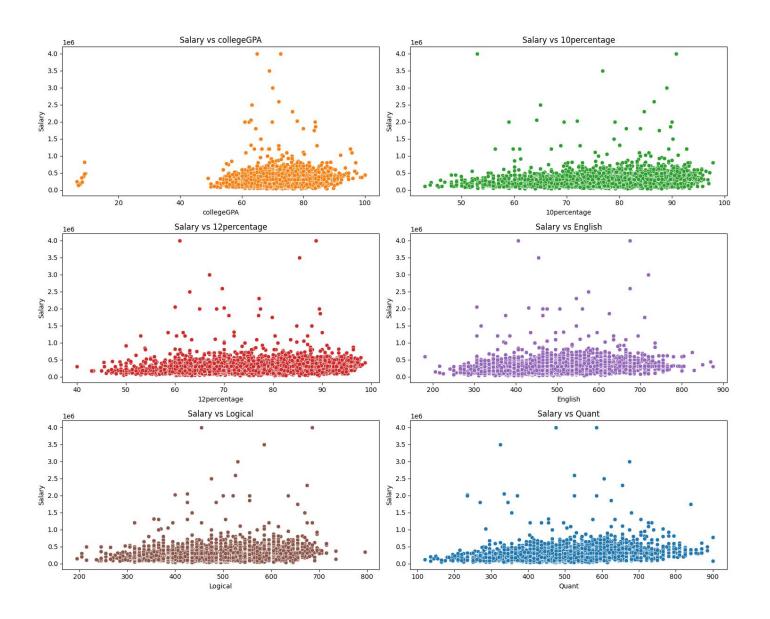
Used scatter plots, correlation matrices, and boxplots to explore relationships between the target variable and other features.

Analyzed the impact of categorical variables on salary.

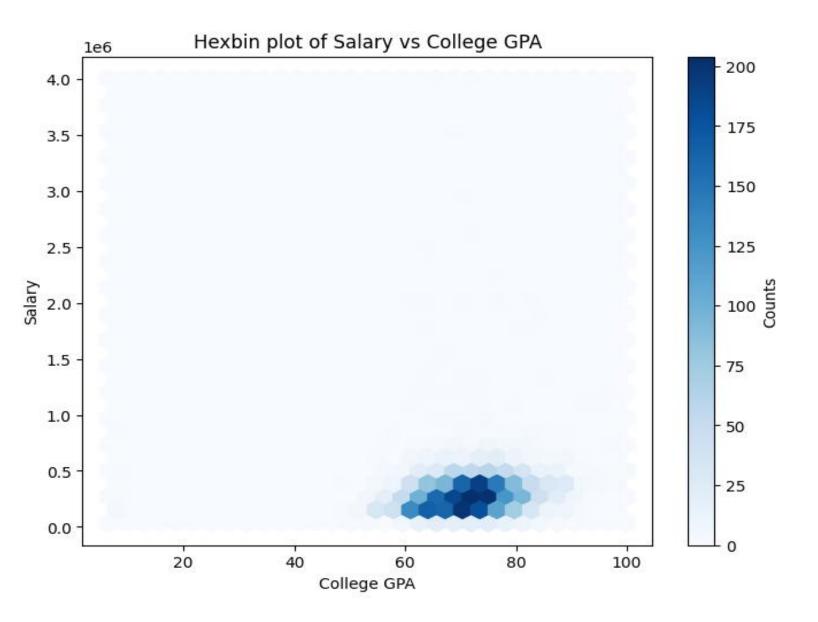




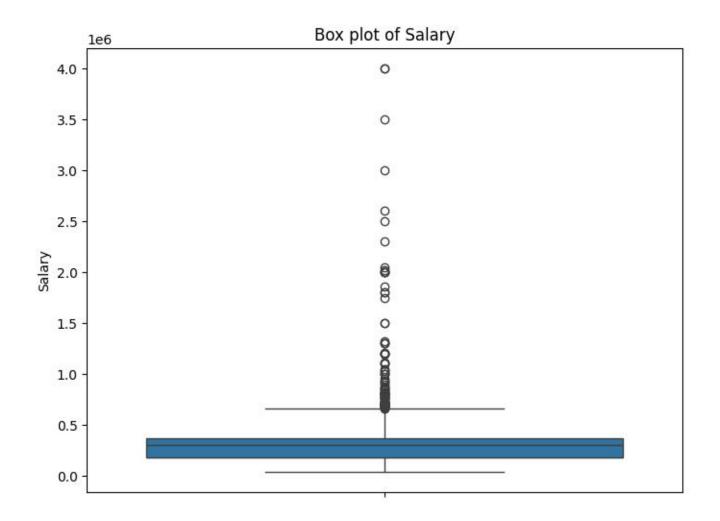




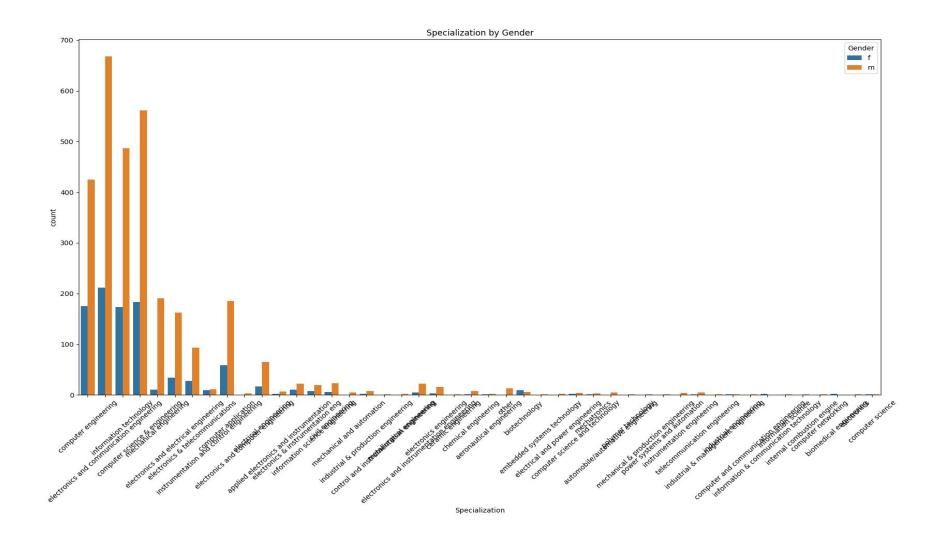














Conclusion (Key finding overall)

Open the floor for questions and discussions regarding the project.



THANK YOU



