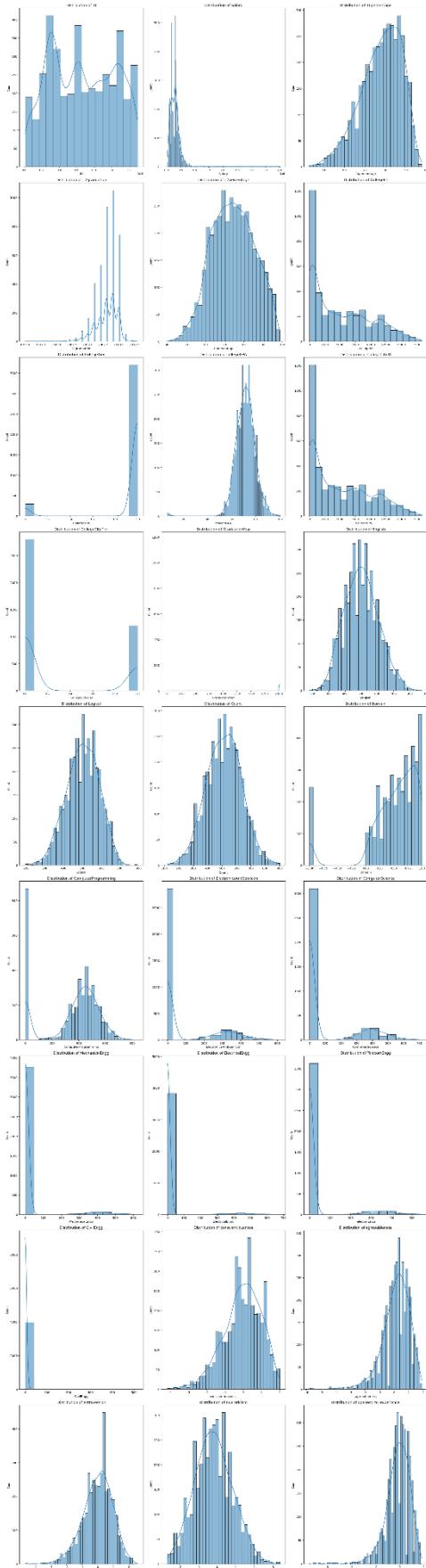


Plots for Probability density function using histogram.



1. Varied Distributions:

- Some histograms show a normal distribution (bell-shaped curves), suggesting that the variable is symmetrically distributed.
 - Some are right-skewed (positively skewed), meaning the data has a long tail on the right, possibly indicating outliers or a log-normal distribution.
 - Some are left-skewed (negatively skewed), meaning

2. Presence of Outliers:

- Certain histograms show sharp spikes or a concentration of values at one end, indicating outliers or extreme values that might affect the analysis.

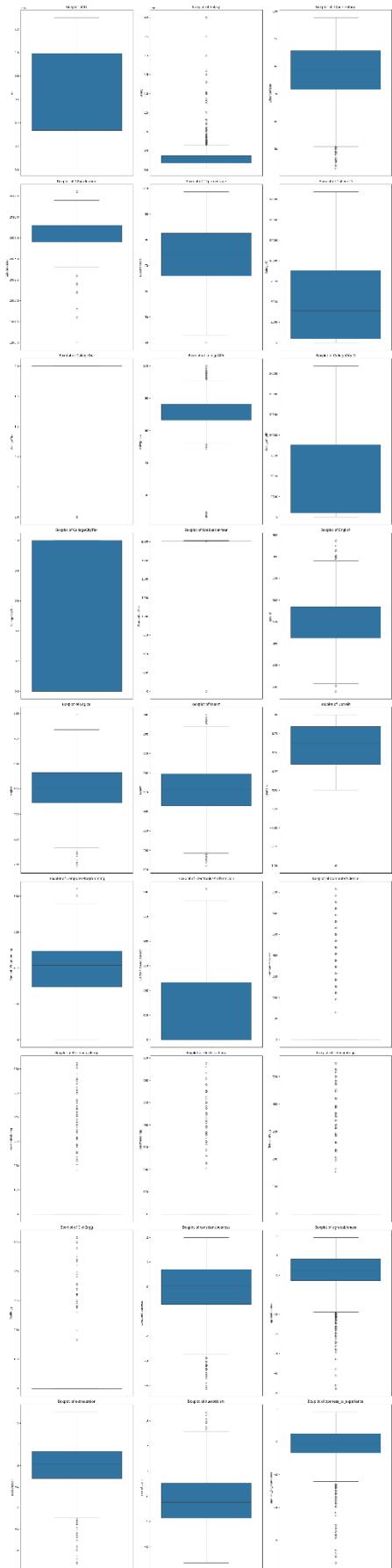
3. Multi-modal Distributions:

- Some plots exhibit multiple peaks, suggesting the presence of subgroups in the data.

4. Highly Skewed Features:

- Several histograms show a majority of values concentrated at one end with a long tail, meaning a possible need for log transformation or scaling.

Boxplot for numerical columns



1. Presence of Outliers:

- Many box plots have data points outside the whiskers, indicating outliers.
- These outliers may affect model performance, so handling them using techniques like capping, trimming, or transformation might be necessary.

2. Skewness in Distributions:

- Some box plots have asymmetrical box positions, suggesting skewed distributions.
- Right-skewed (positive skew) distributions have longer upper whiskers.
- Left-skewed (negative skew) distributions have longer lower whiskers.
- Skewed data might need log transformations or other normalization techniques.

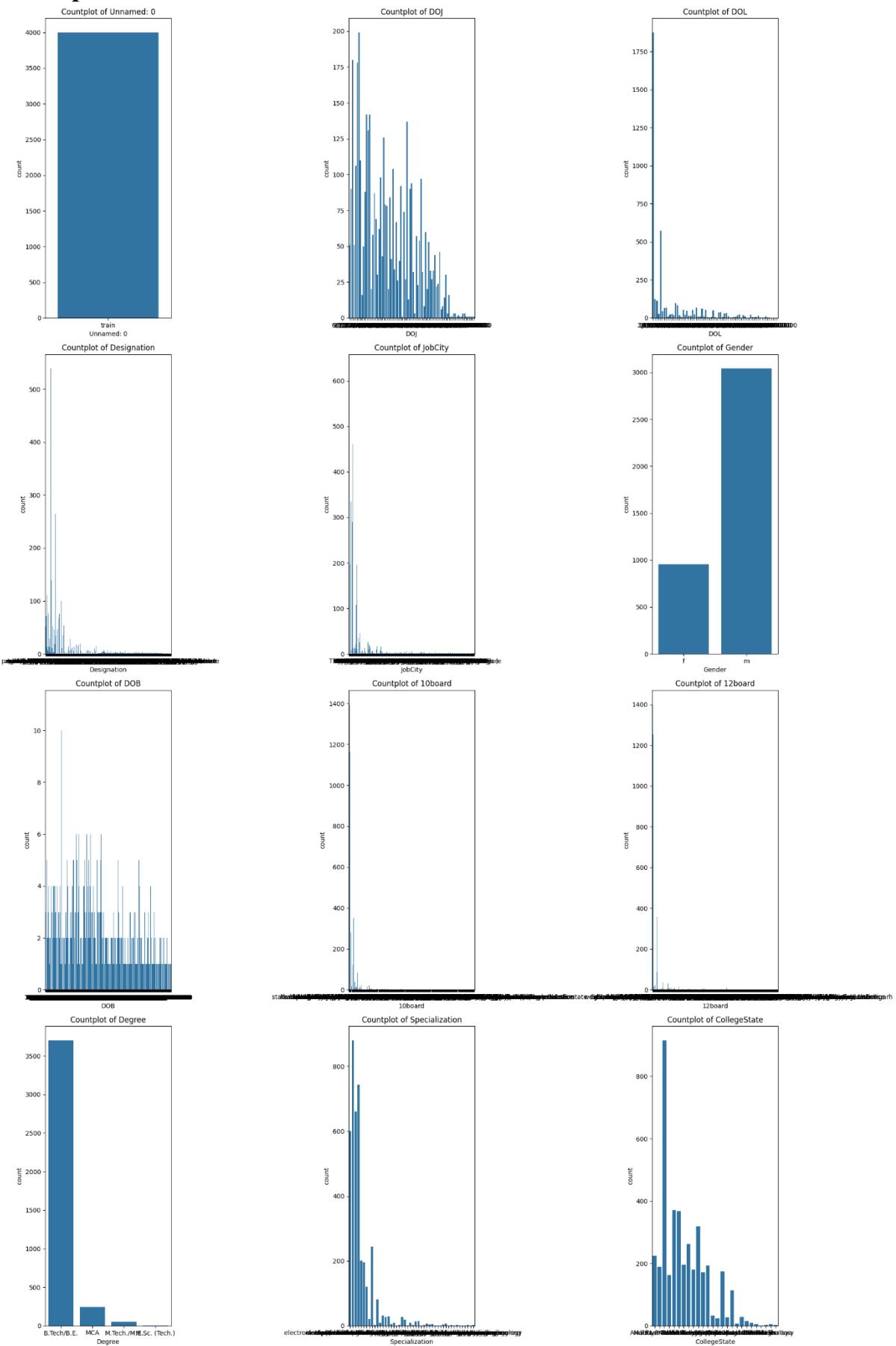
3. Data Spread (IQR - Interquartile Range):

- Features with large boxes indicate a high spread of values.
- Features with small boxes indicate low variance or tightly clustered values.

4. Potential Data Imbalance:

- Some box plots appear heavily unbalanced, meaning most values are concentrated in one region while a few extreme values stretch the range.

Countplot for numerical columns.



1. Date of Joining (DOJ) & Date of Leaving (DOL)

- The distribution shows a high frequency of early joining dates, tapering off over time.
- DOL has a few peaks, indicating employees leaving at specific time periods.

2. Designation & Job City

- A high concentration of certain designations and job cities is visible.
- Some categories appear rarely, which might indicate imbalance in job distribution.

3. Gender Distribution

- A strong imbalance in gender representation is visible (male > female).

4. Date of Birth (DOB)

- The distribution appears spread out, but frequencies are low.

5. 10th & 12th Board

- The frequency of certain education boards is disproportionate.
- It may indicate dataset bias toward specific educational backgrounds.

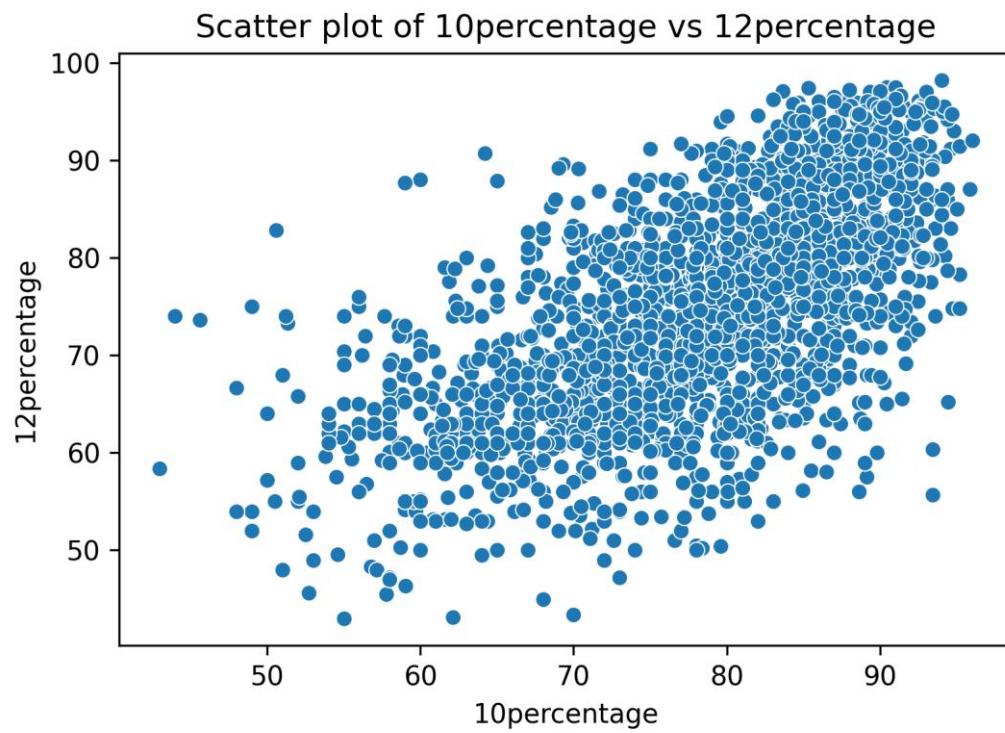
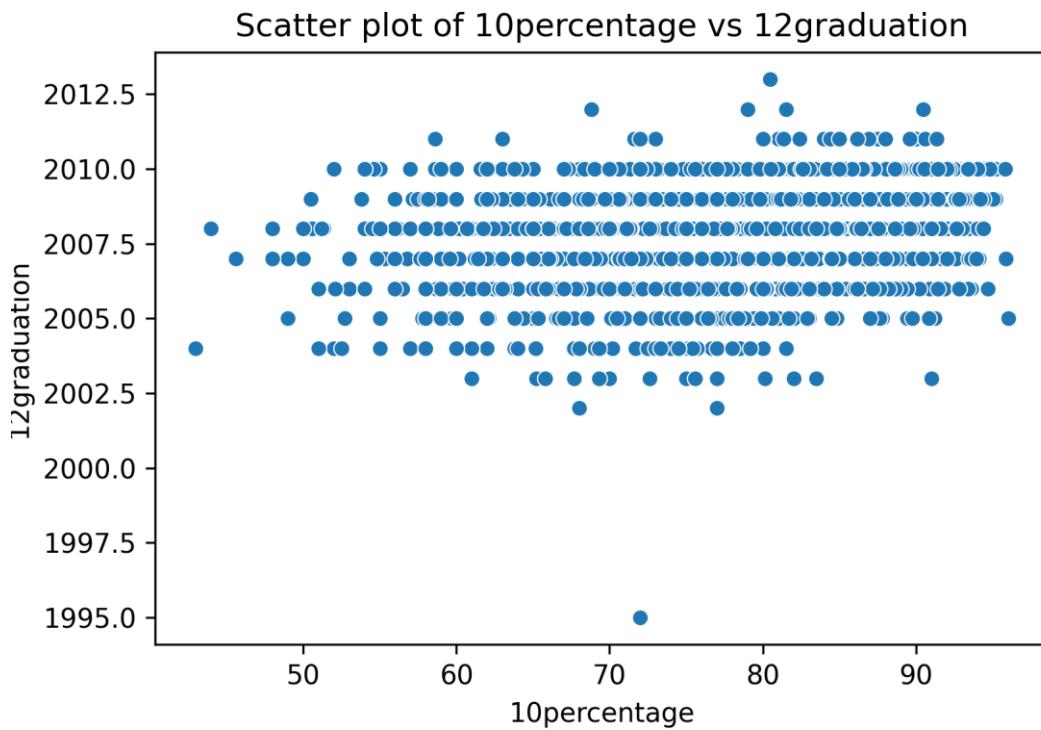
6. Degree & Specialization

- B.Tech/B.E. is the most common degree.
- Specialization shows high frequency in a few fields, with rare specializations having very low counts.

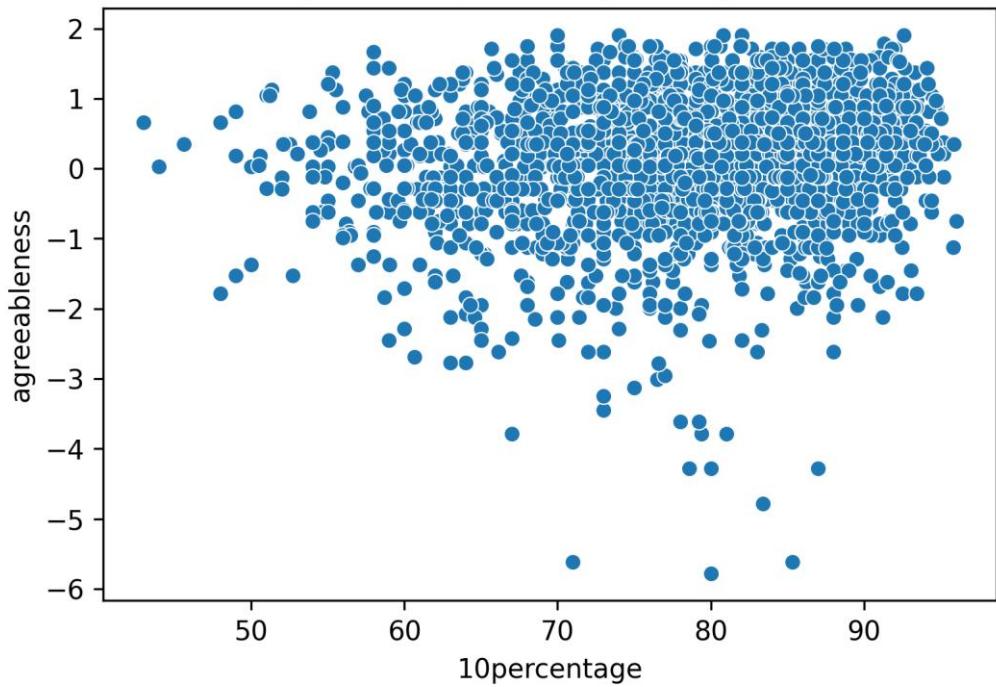
7. College State

- Some states have a high representation, while others have very low counts.

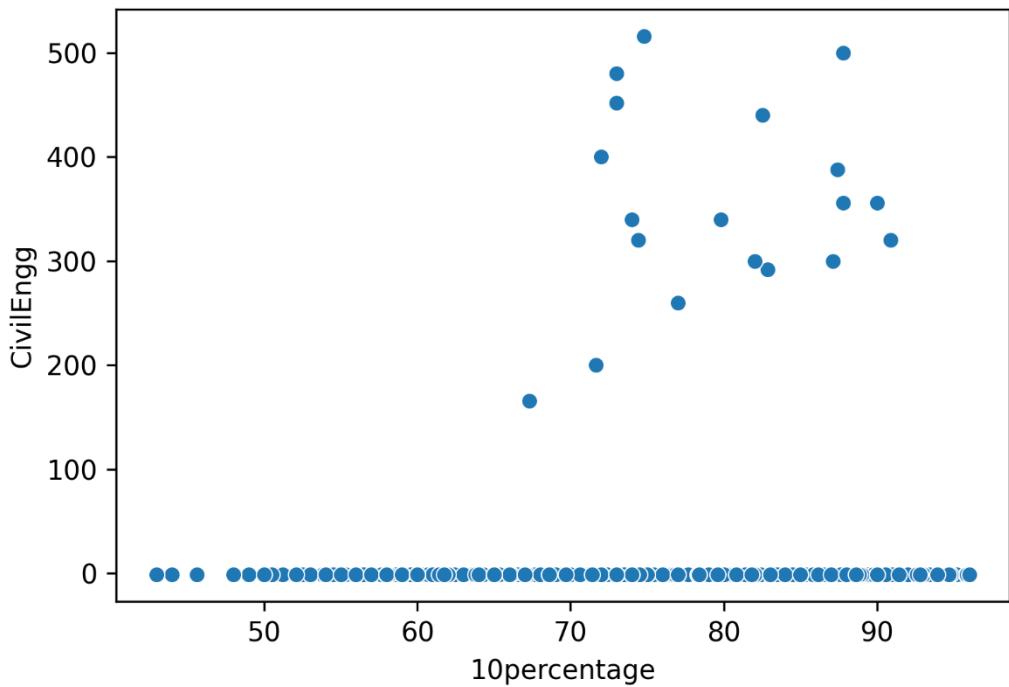
Scatter plots for numerical columns vs numerical columns.



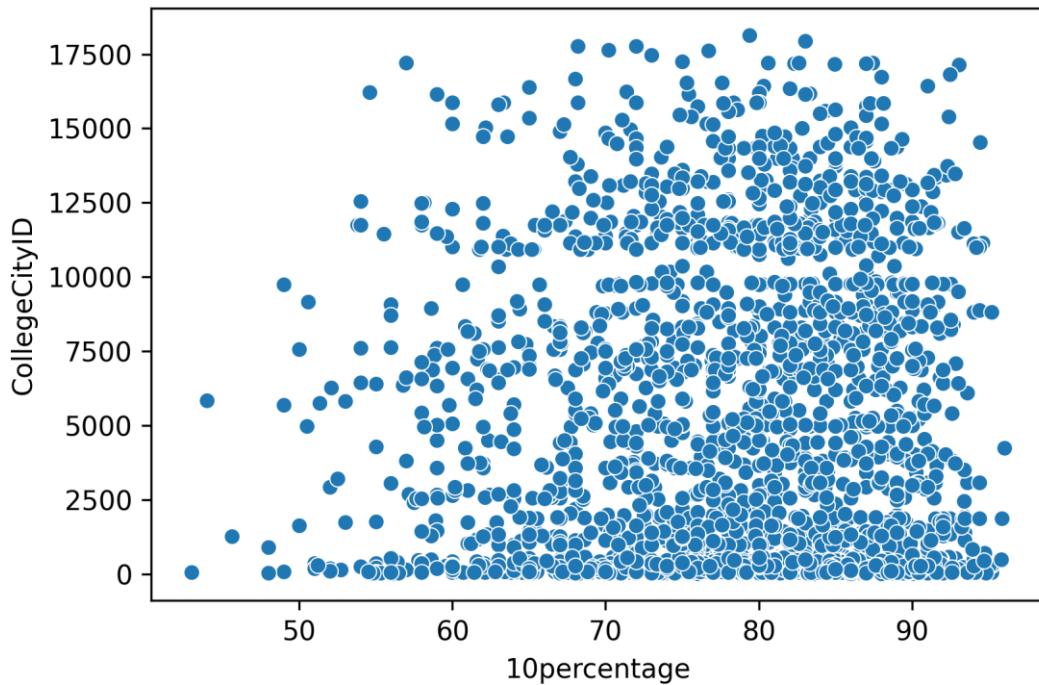
Scatter plot of 10percentage vs agreeableness



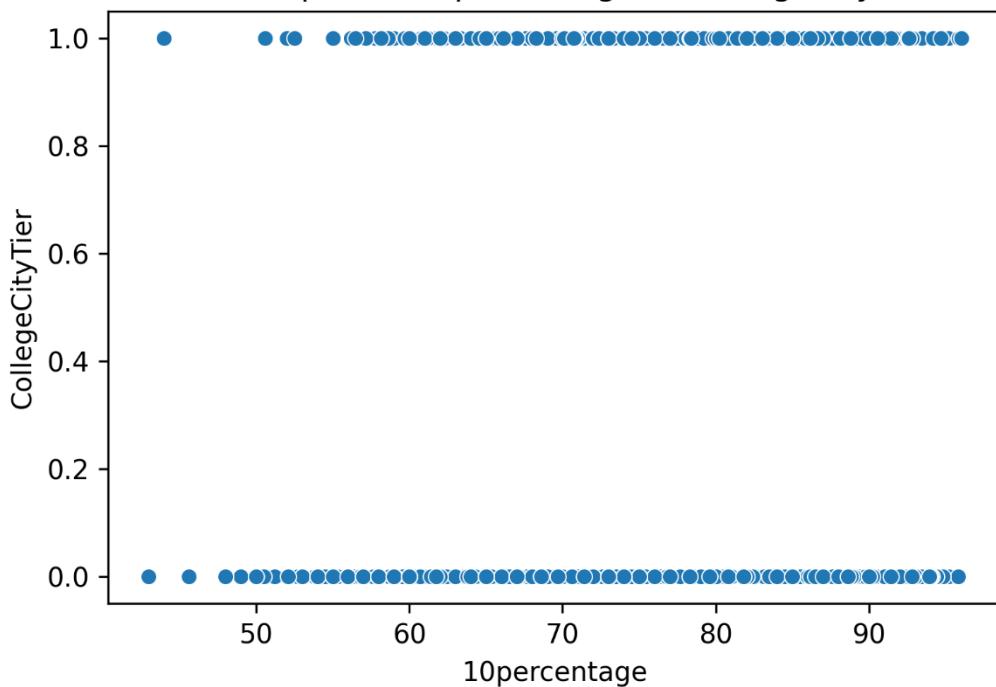
Scatter plot of 10percentage vs CivilEngg



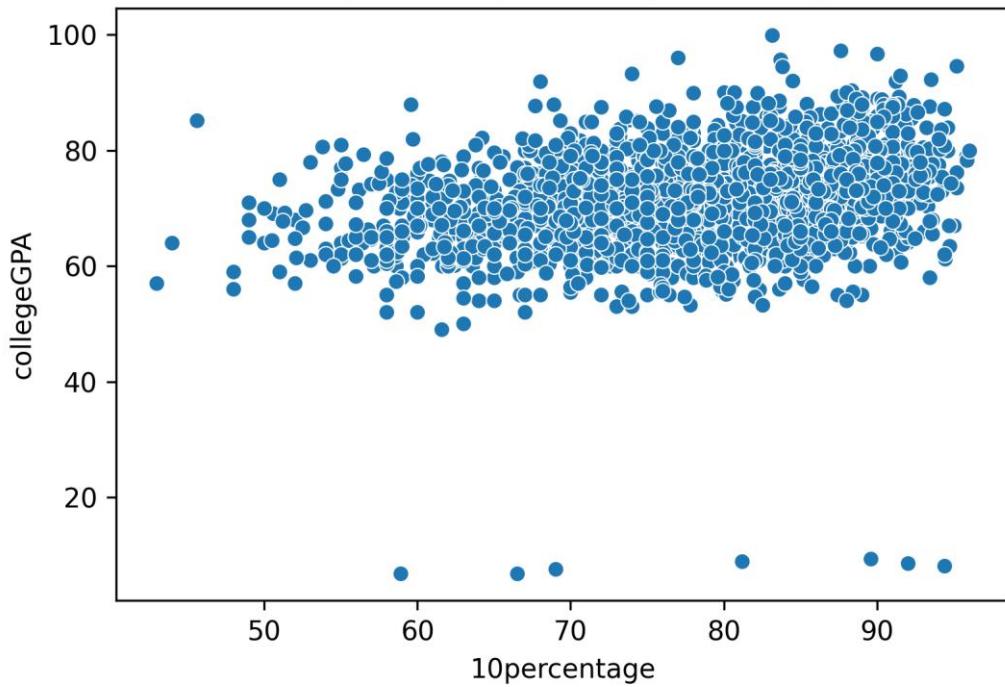
Scatter plot of 10percentage vs CollegeCityID



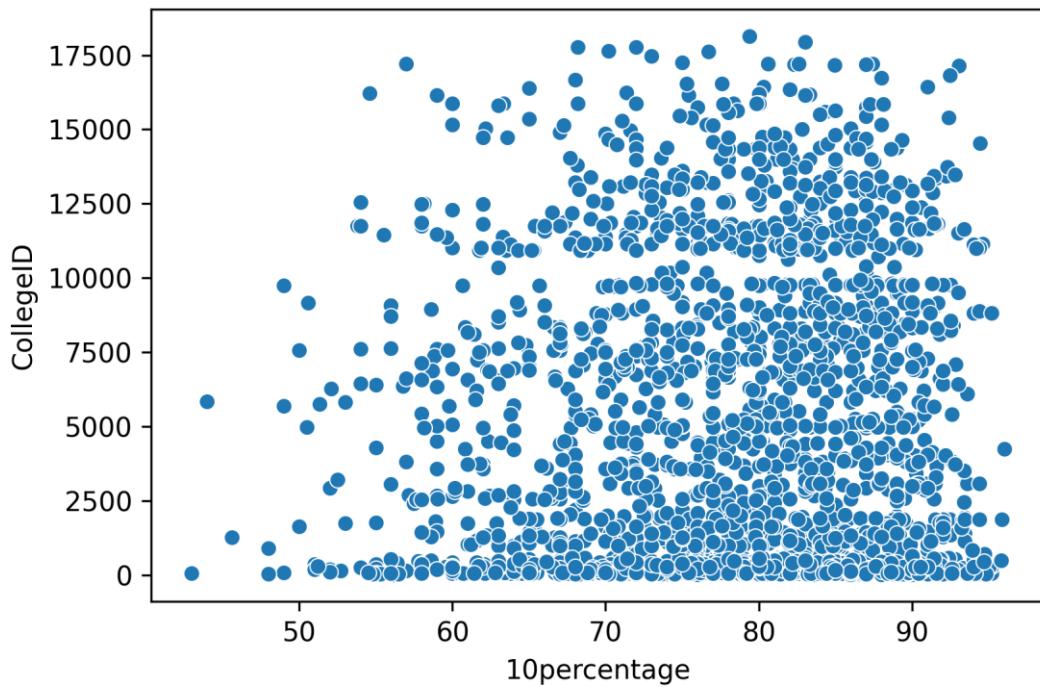
Scatter plot of 10percentage vs CollegeCityTier



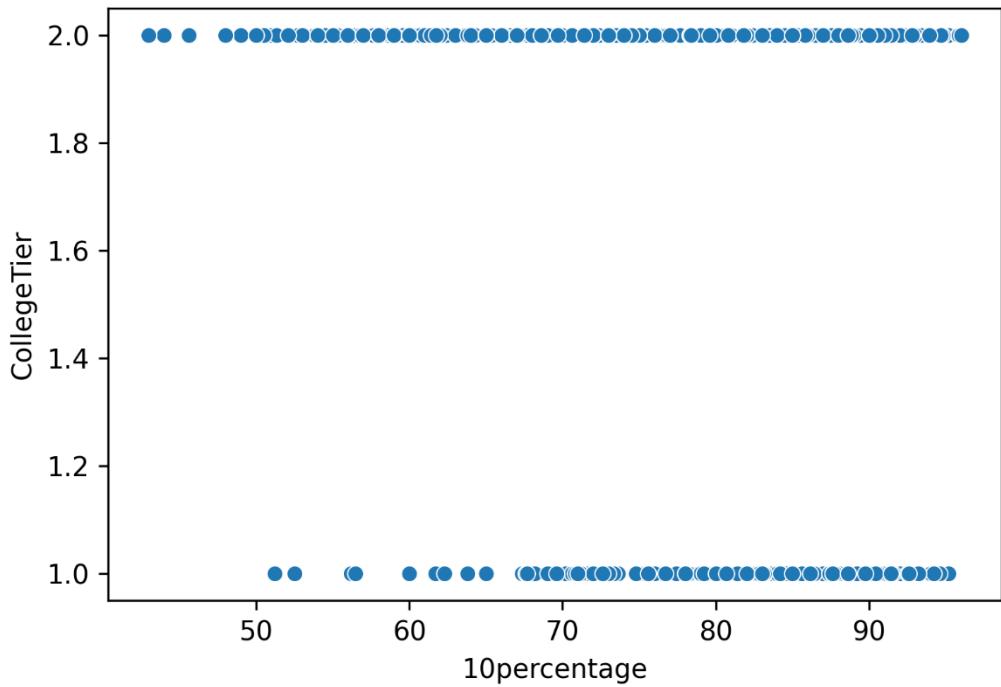
Scatter plot of 10percentage vs collegeGPA



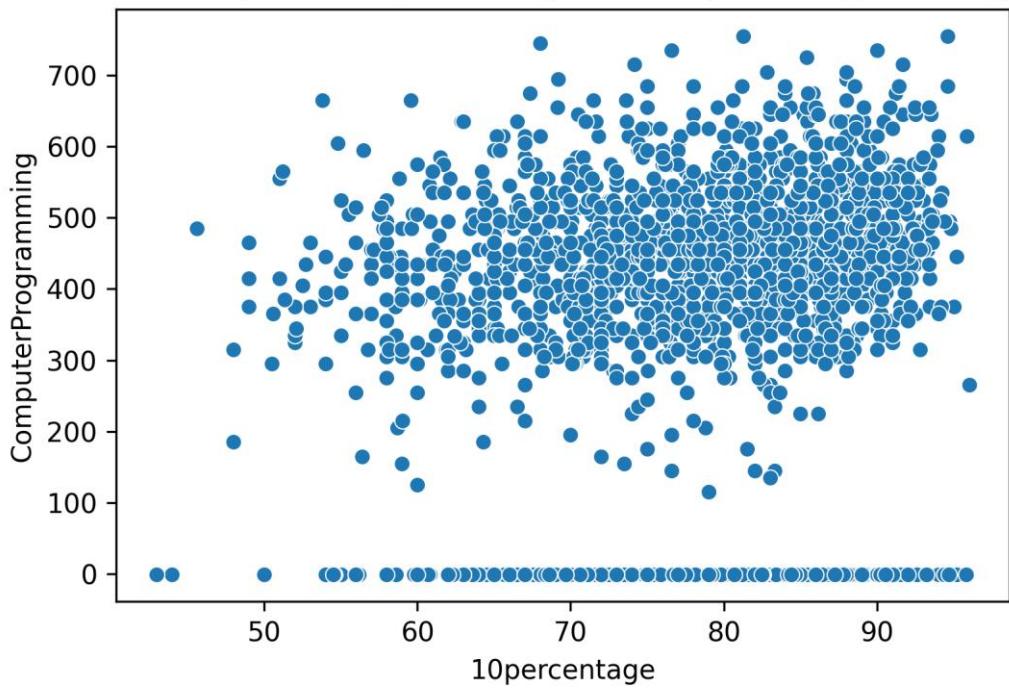
Scatter plot of 10percentage vs CollegeID



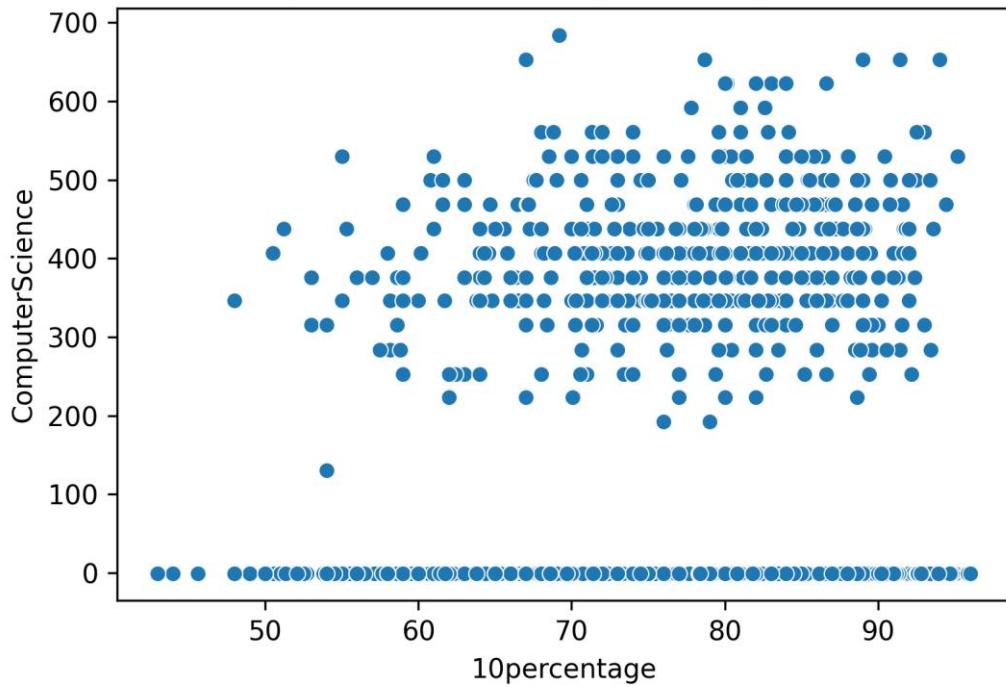
Scatter plot of 10percentage vs CollegeTier



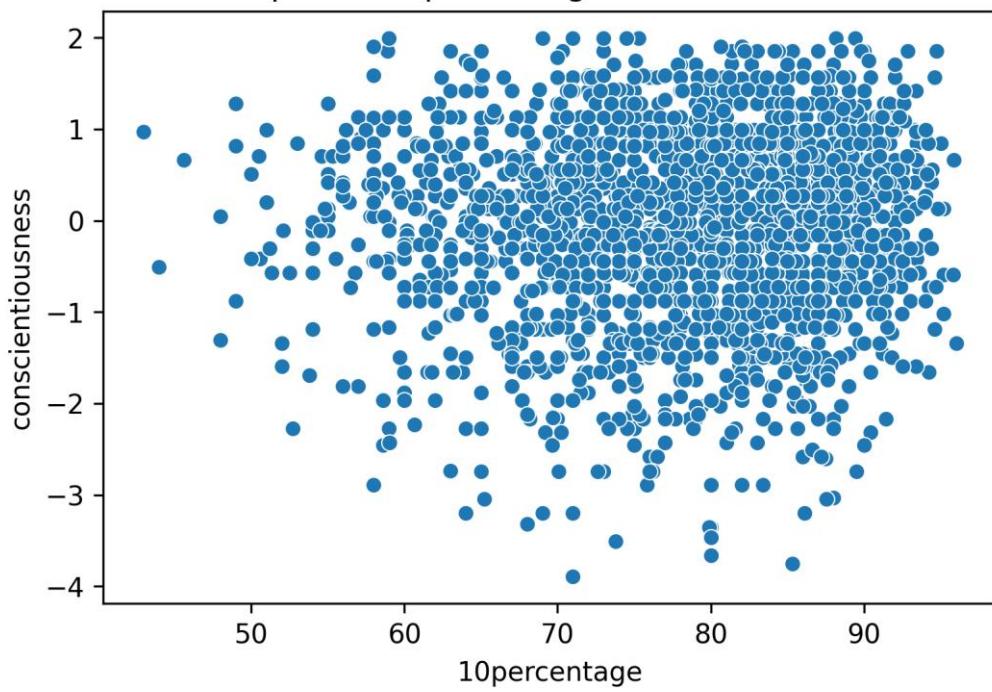
Scatter plot of 10percentage vs ComputerProgramming



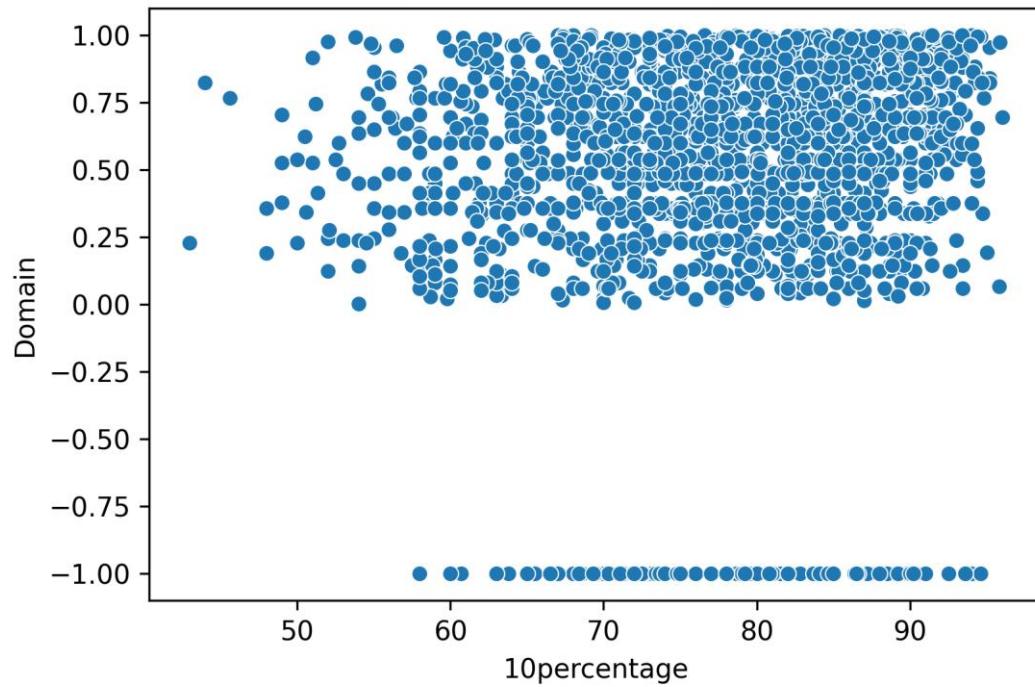
Scatter plot of 10percentage vs ComputerScience



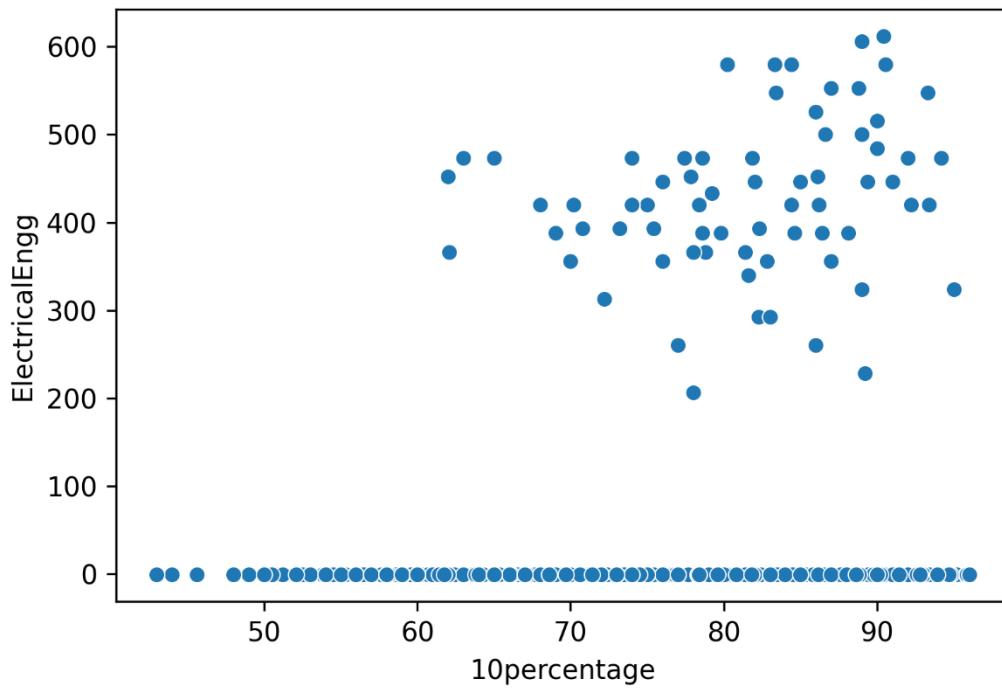
Scatter plot of 10percentage vs conscientiousness



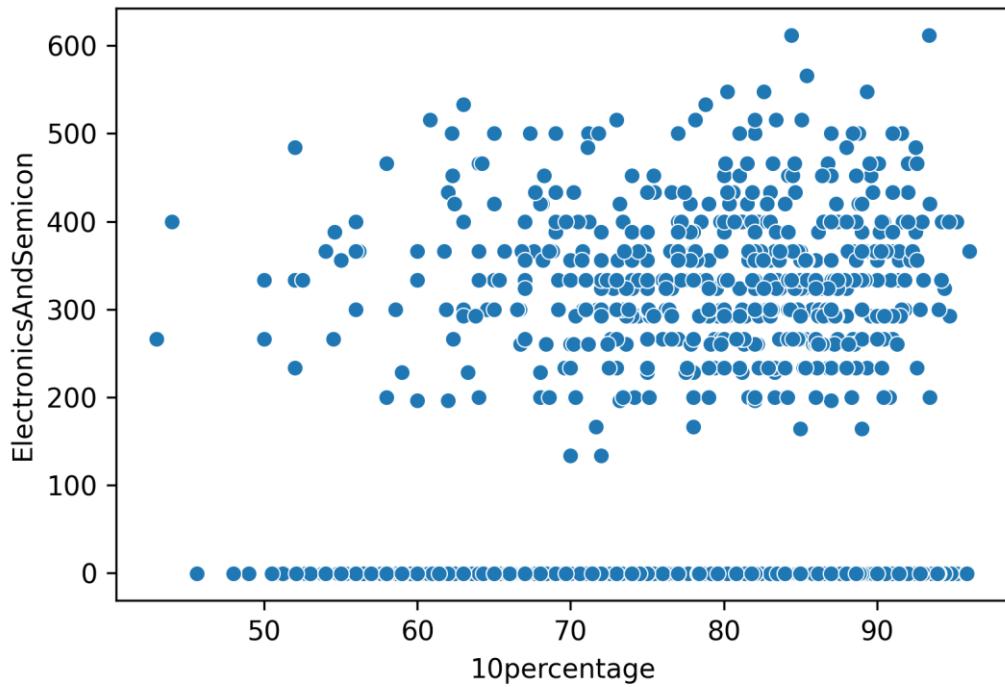
Scatter plot of 10percentage vs Domain



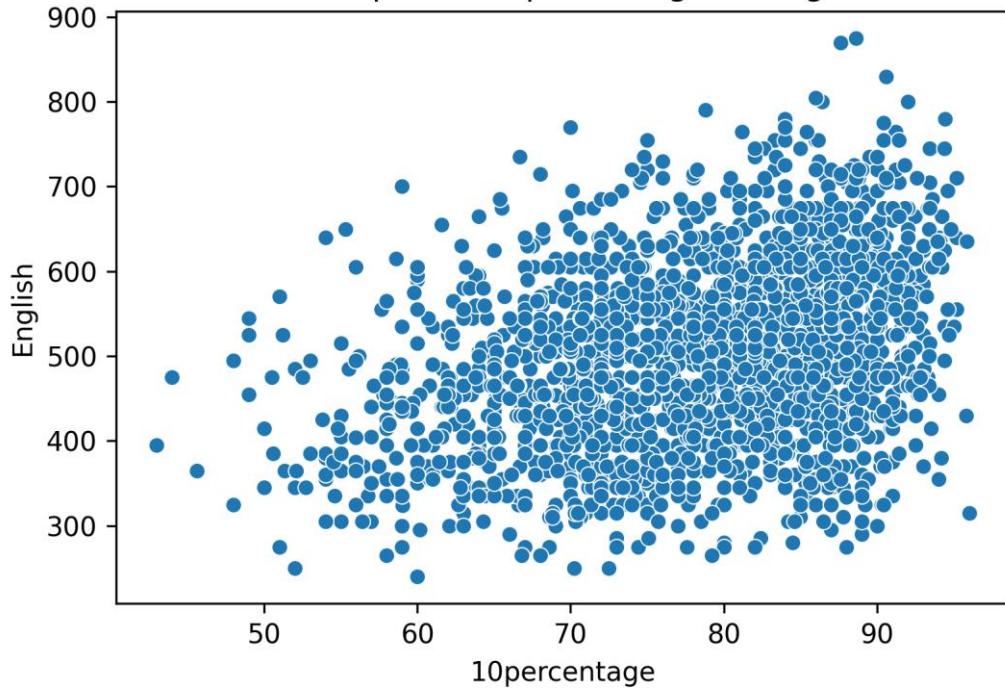
Scatter plot of 10percentage vs ElectricalEngg



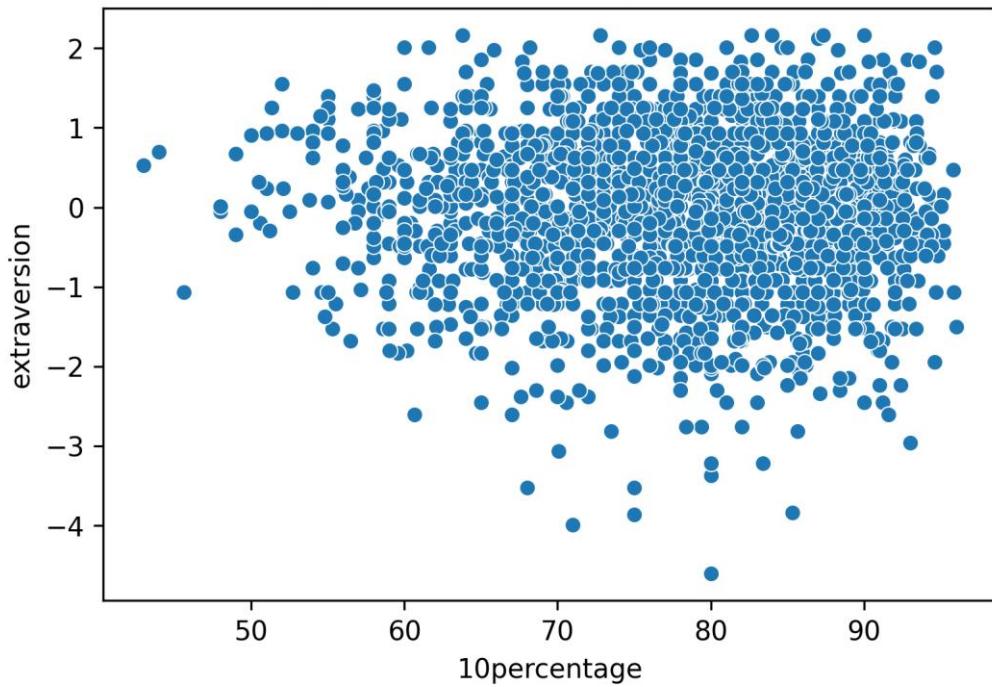
Scatter plot of 10percentage vs ElectronicsAndSemicon



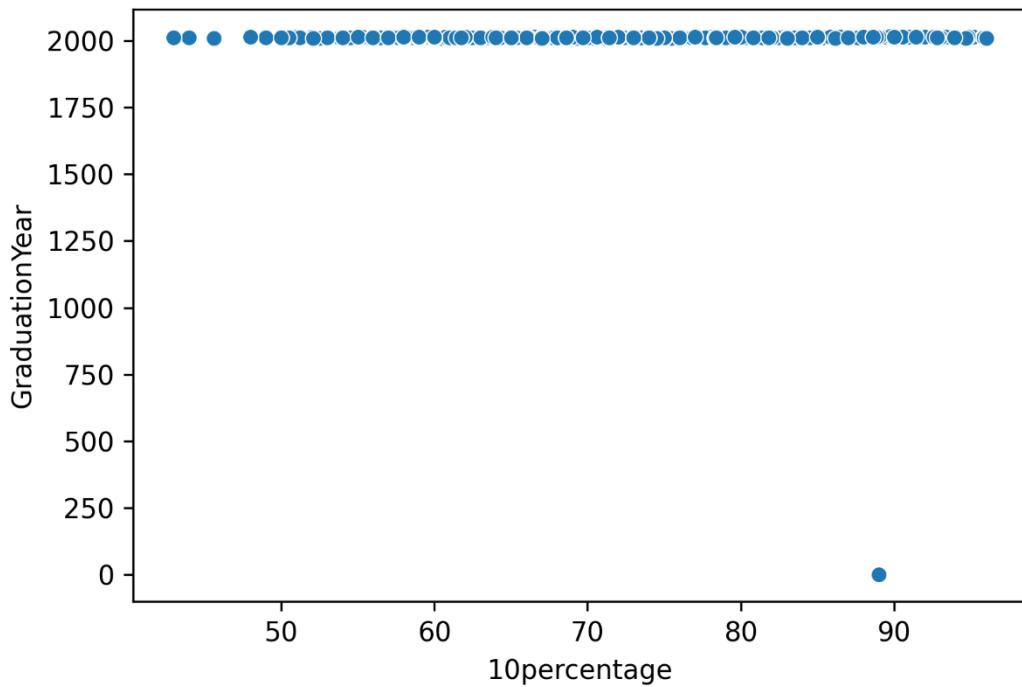
Scatter plot of 10percentage vs English



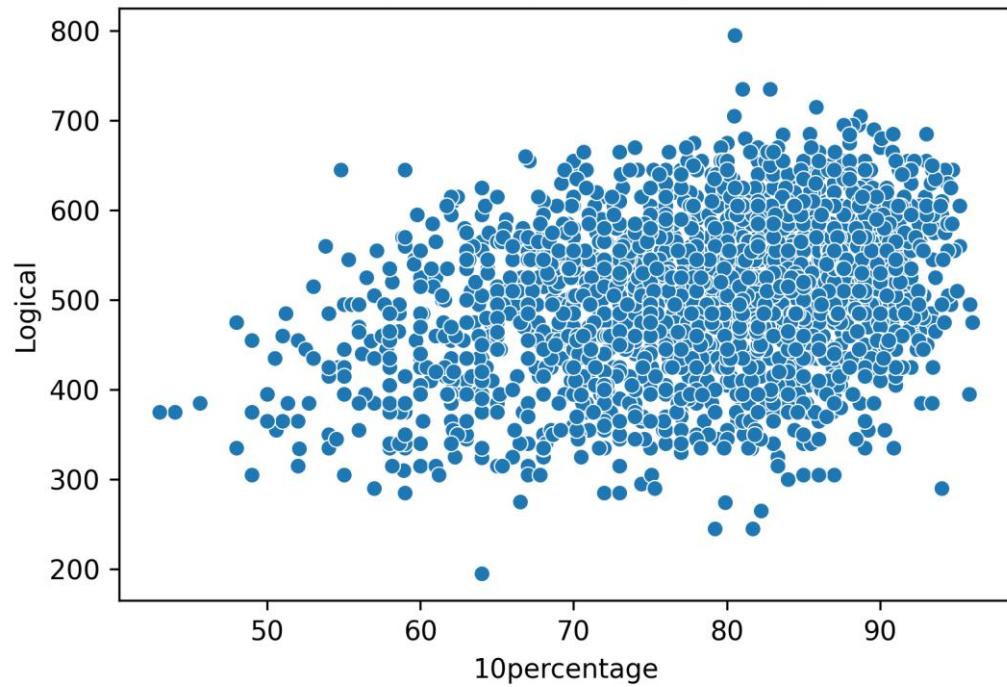
Scatter plot of 10percentage vs extraversion



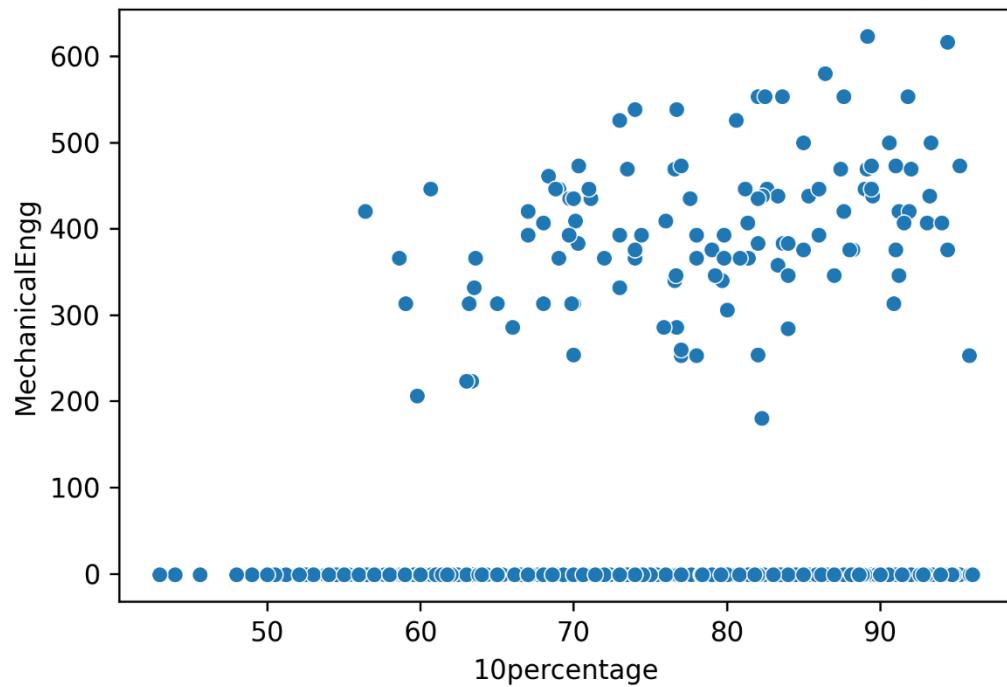
Scatter plot of 10percentage vs GraduationYear



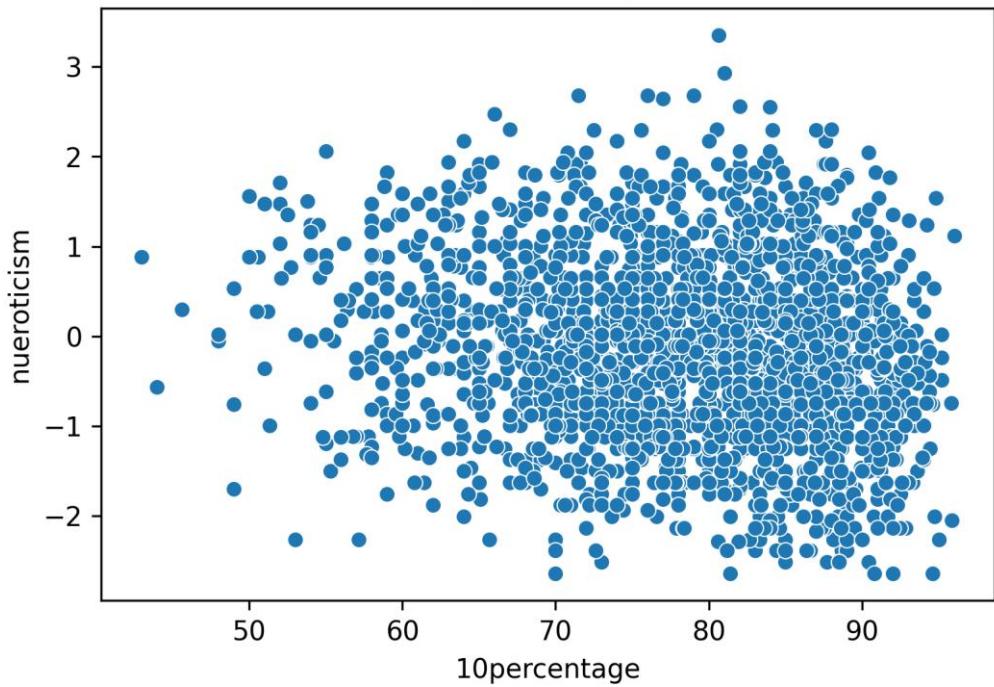
Scatter plot of 10percentage vs Logical



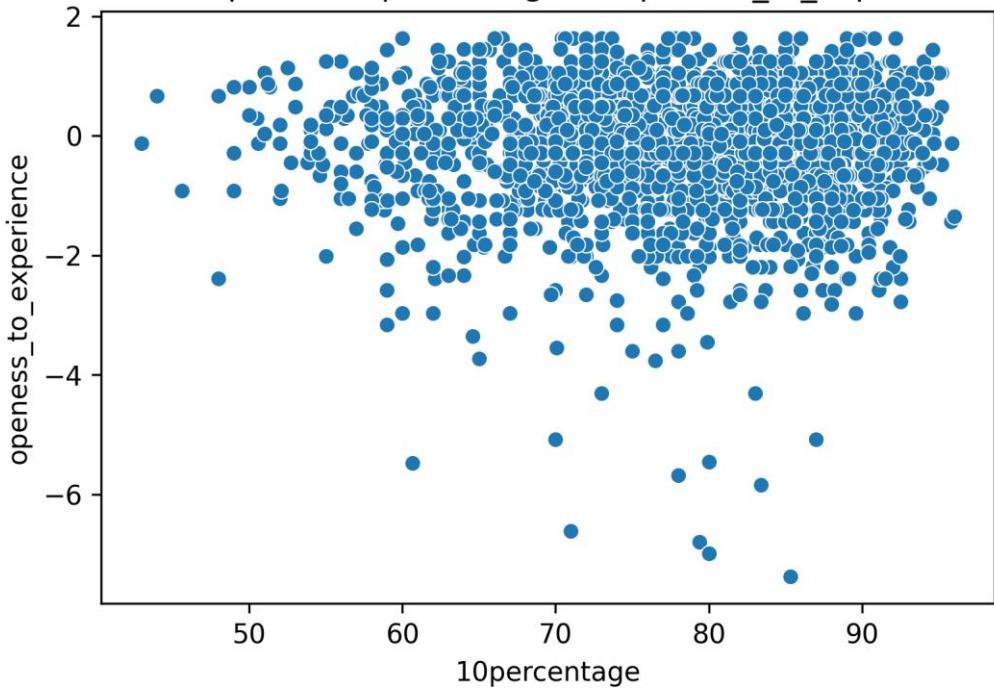
Scatter plot of 10percentage vs MechanicalEngg



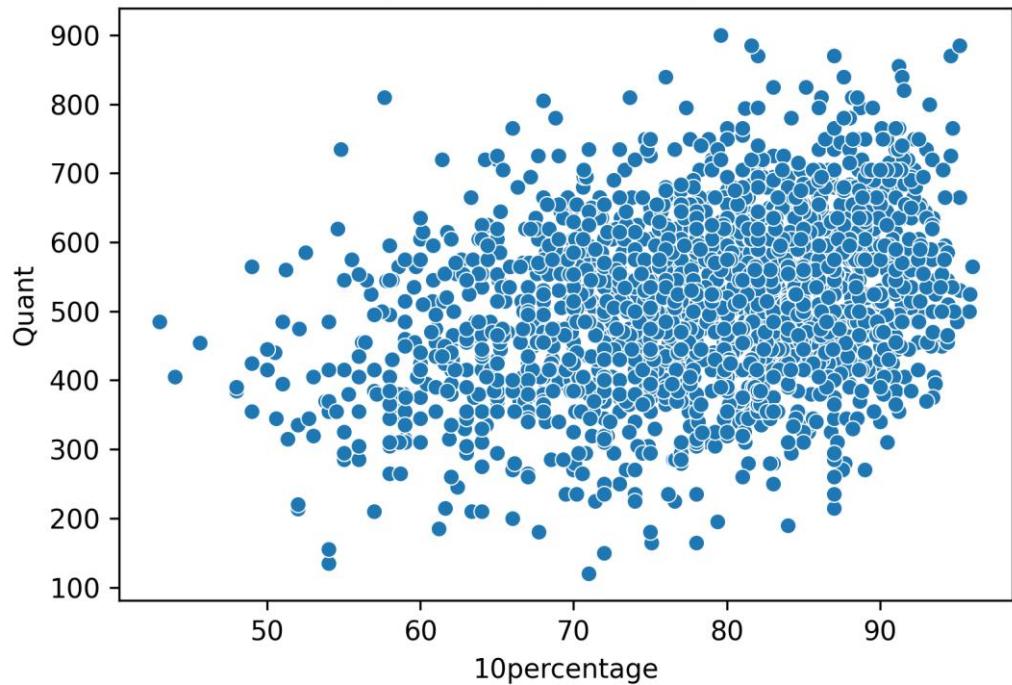
Scatter plot of 10percentage vs nueroticism



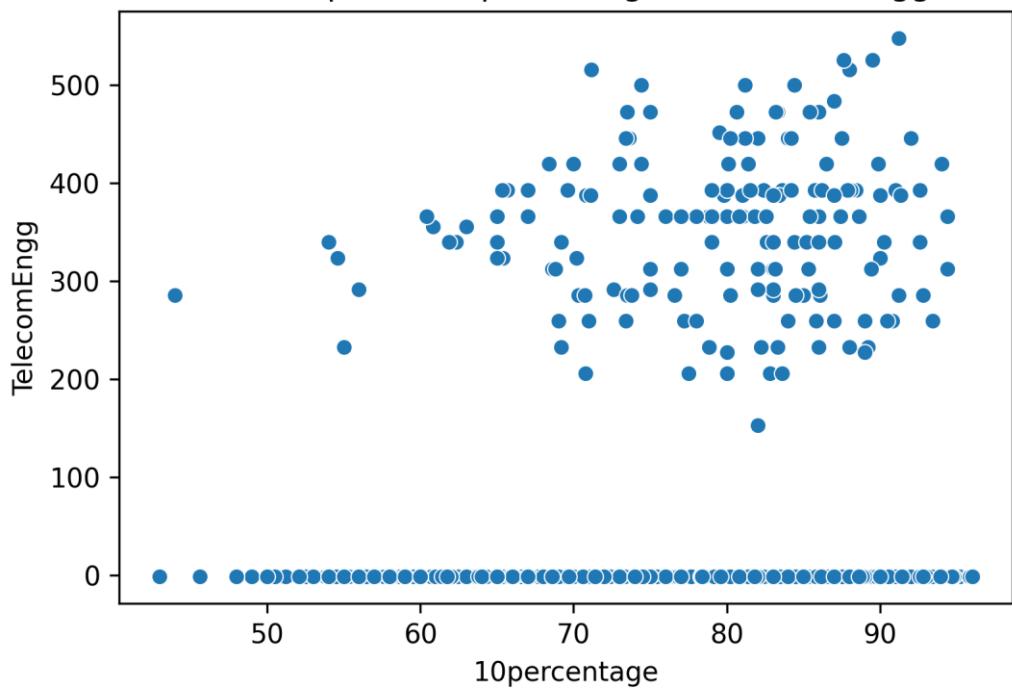
Scatter plot of 10percentage vs openness_to_experience

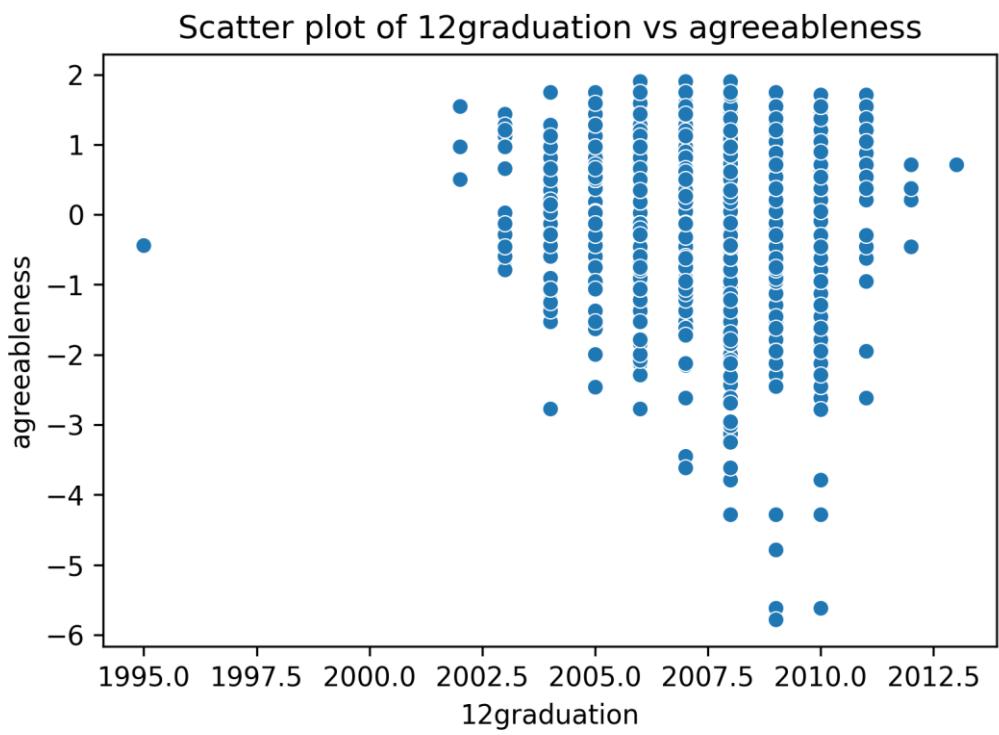
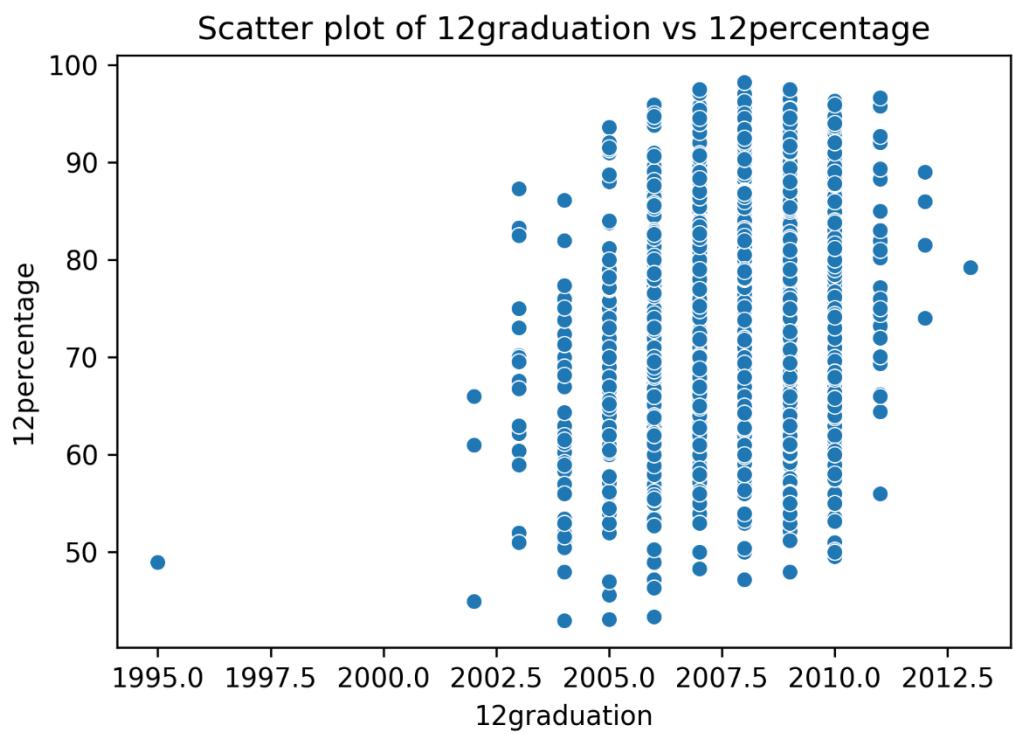


Scatter plot of 10percentage vs Quant

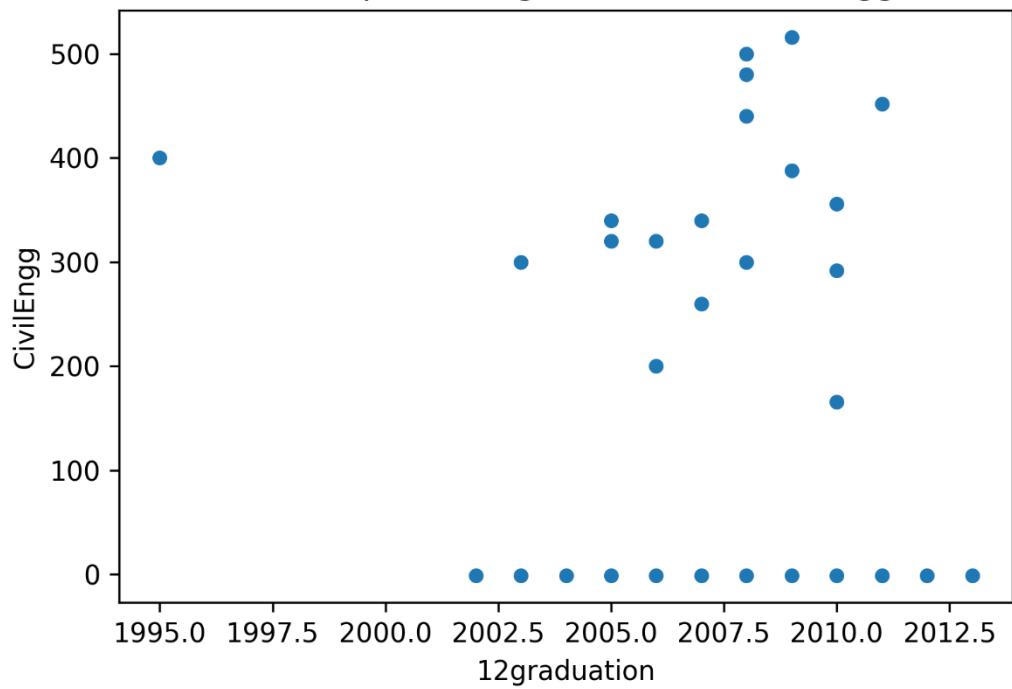


Scatter plot of 10percentage vs TelecomEngg

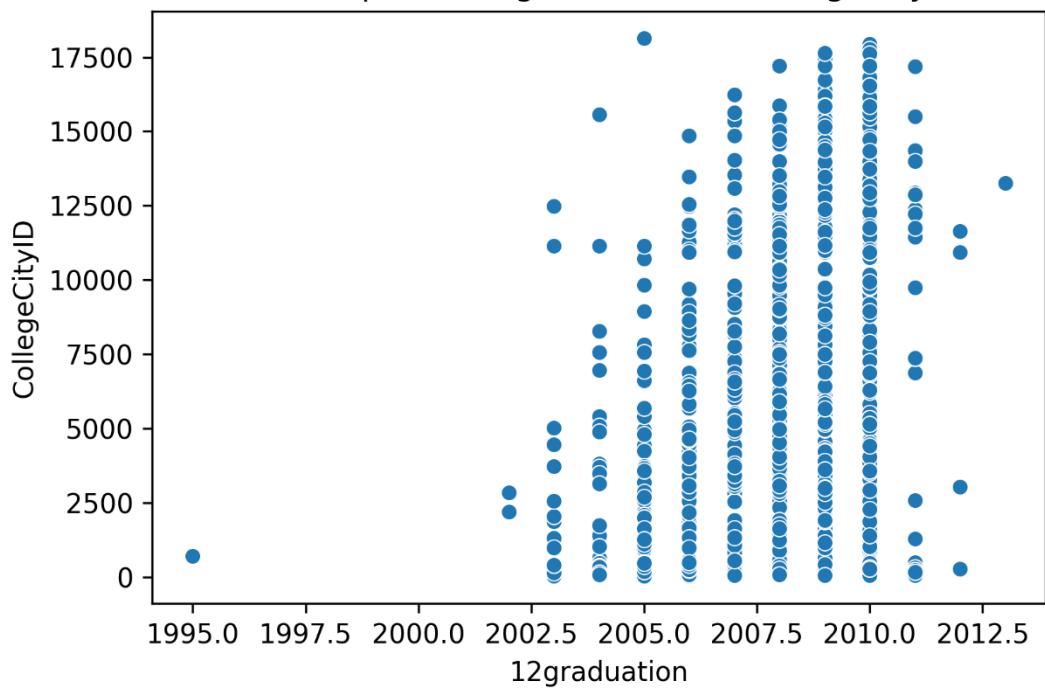




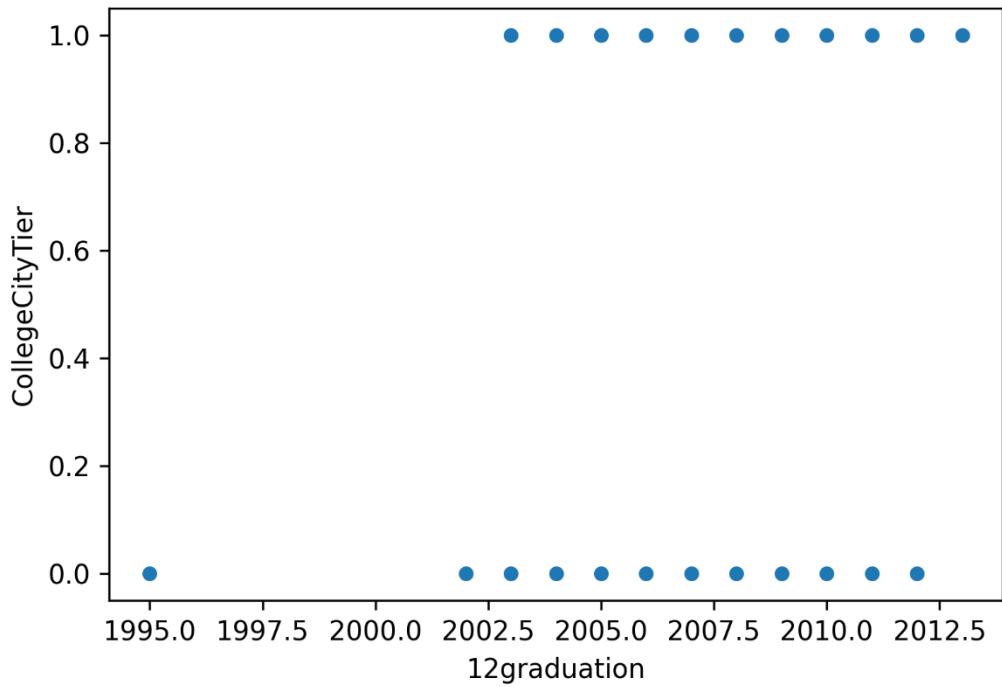
Scatter plot of 12graduation vs CivilEngg



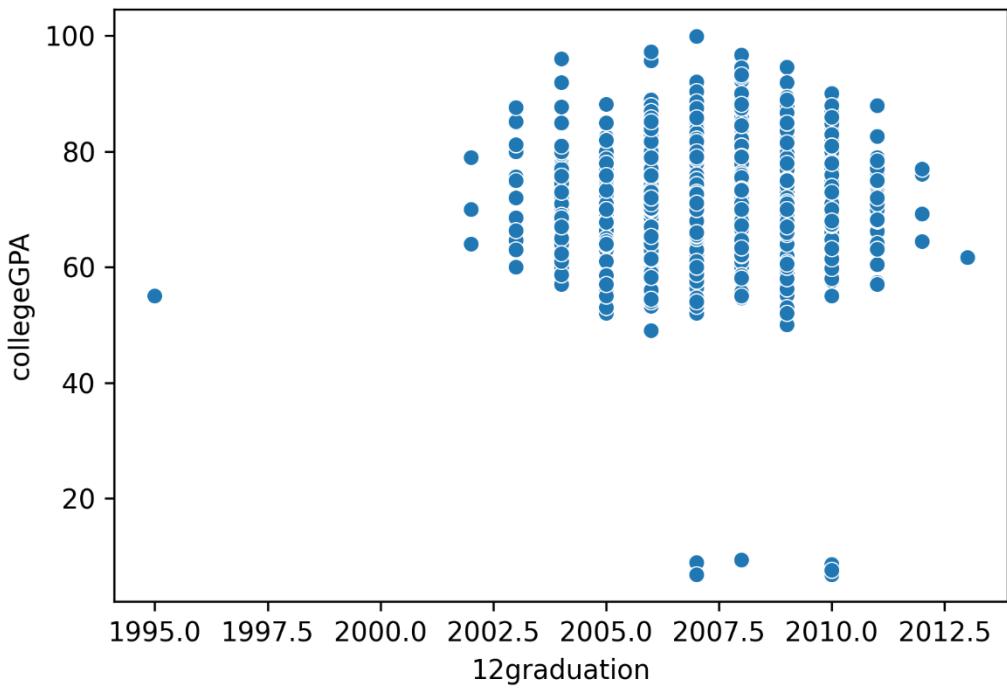
Scatter plot of 12graduation vs CollegeCityID



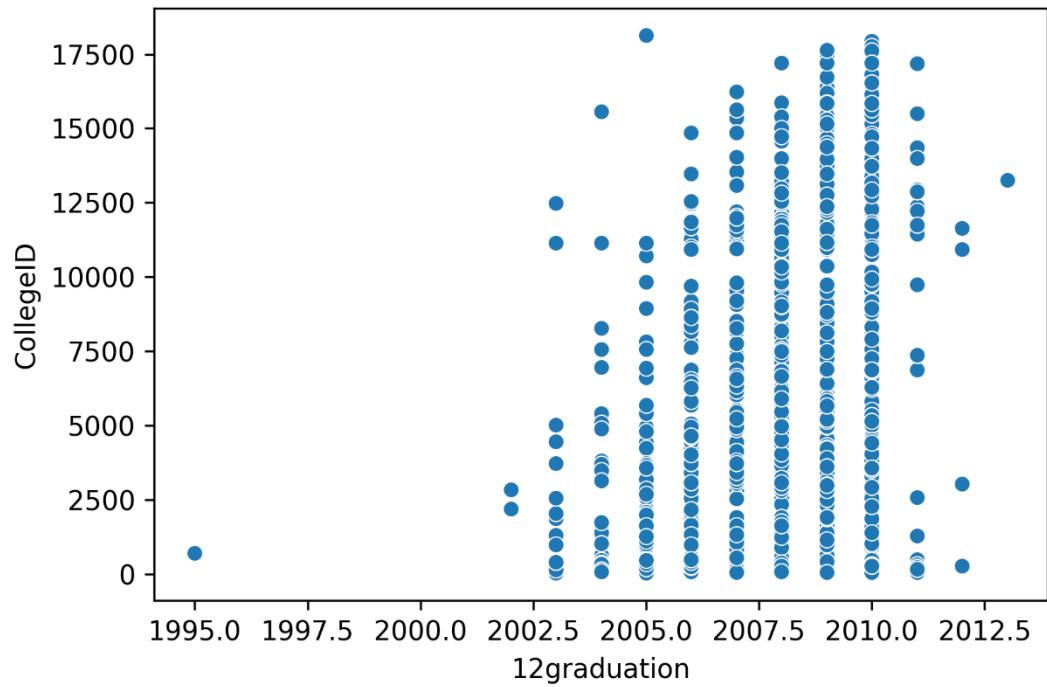
Scatter plot of 12graduation vs CollegeCityTier



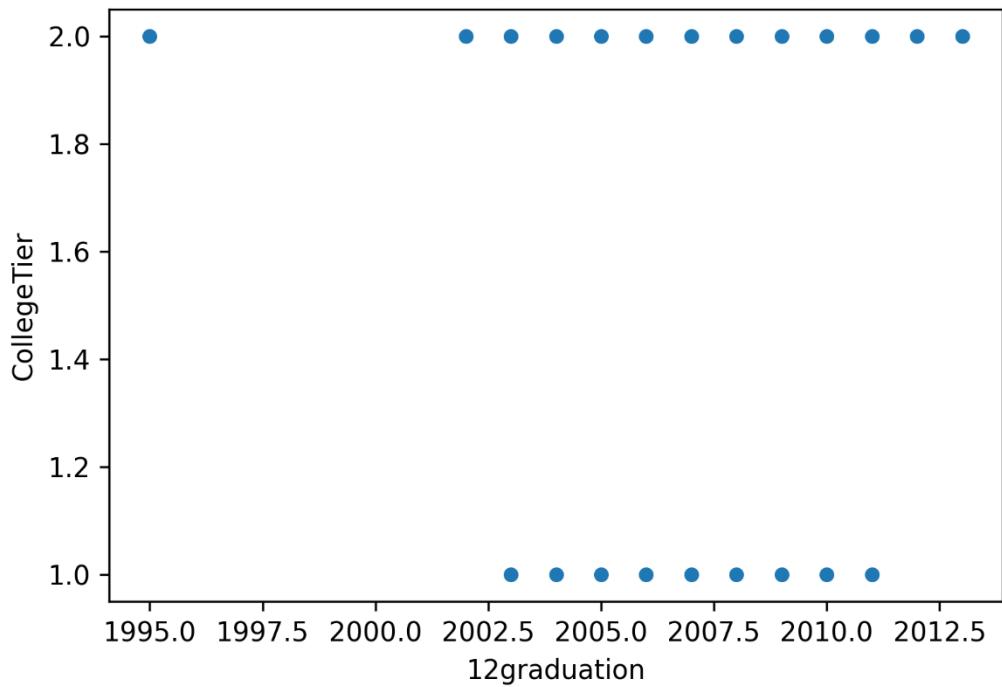
Scatter plot of 12graduation vs collegeGPA



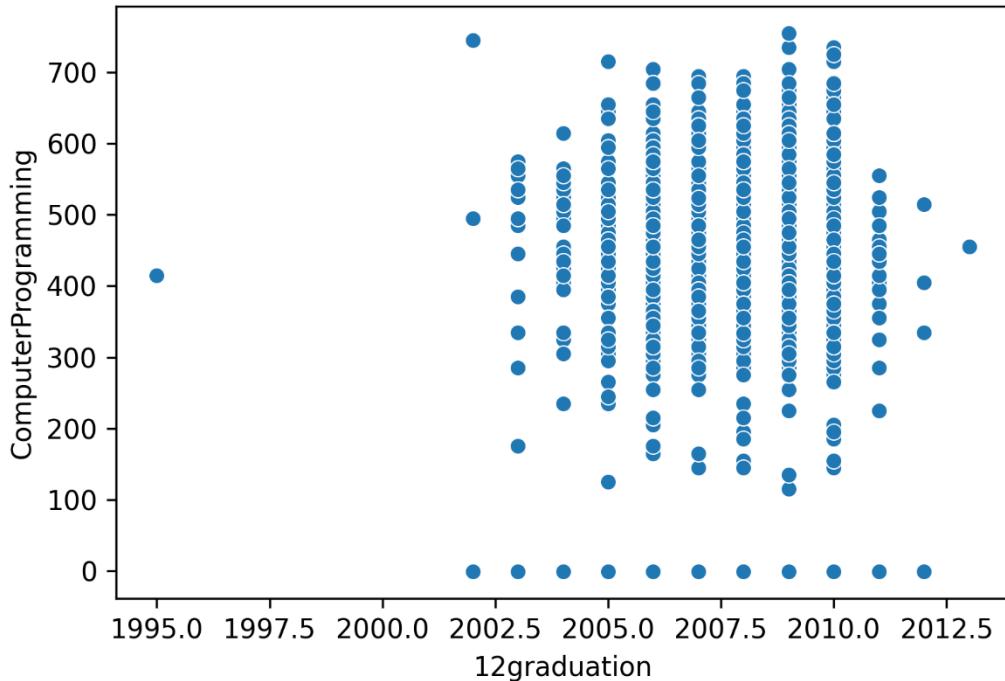
Scatter plot of 12graduation vs CollegeID



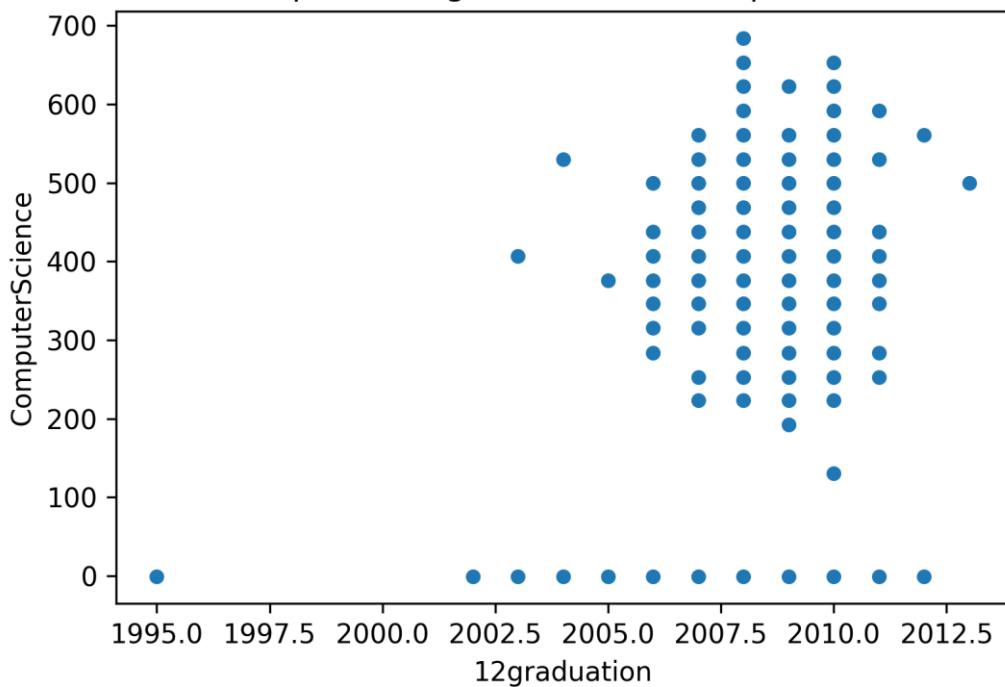
Scatter plot of 12graduation vs CollegeTier



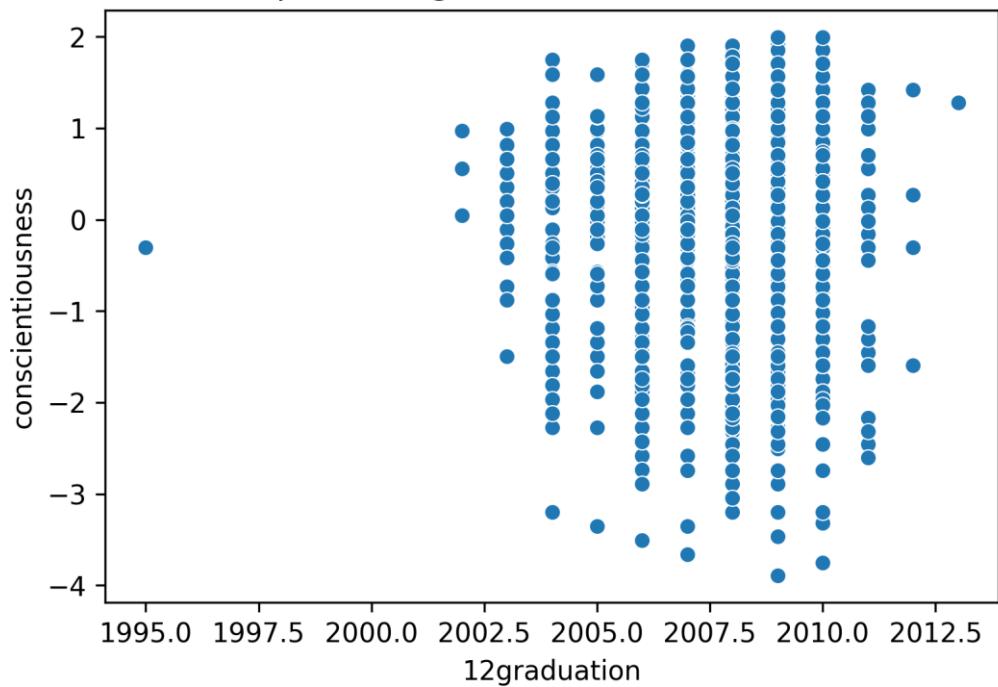
Scatter plot of 12graduation vs ComputerProgramming



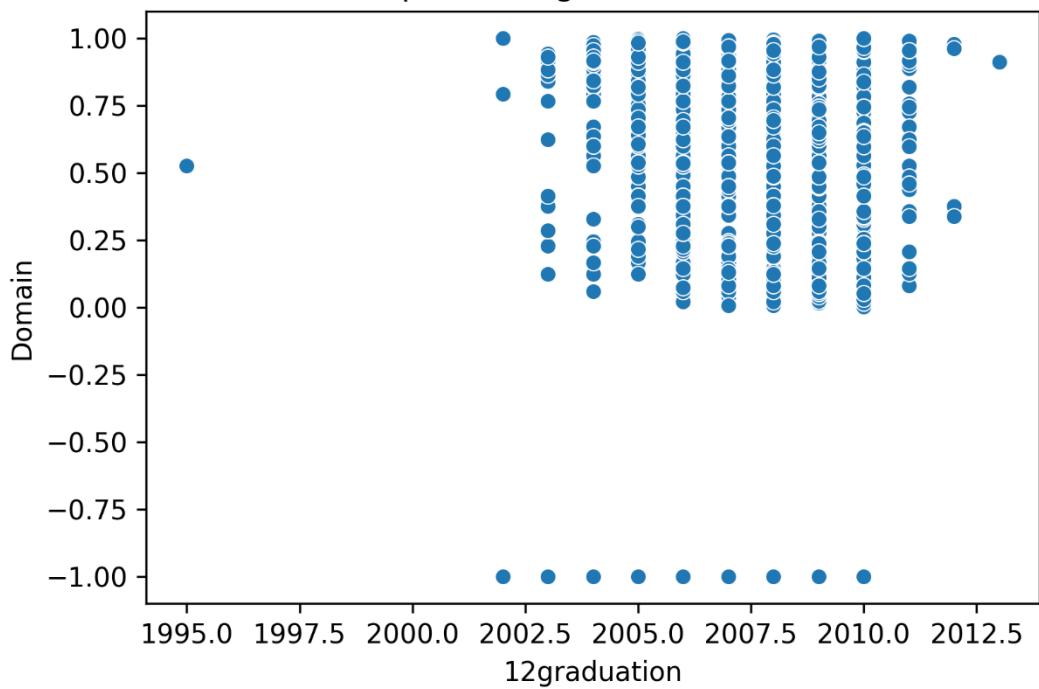
Scatter plot of 12graduation vs ComputerScience



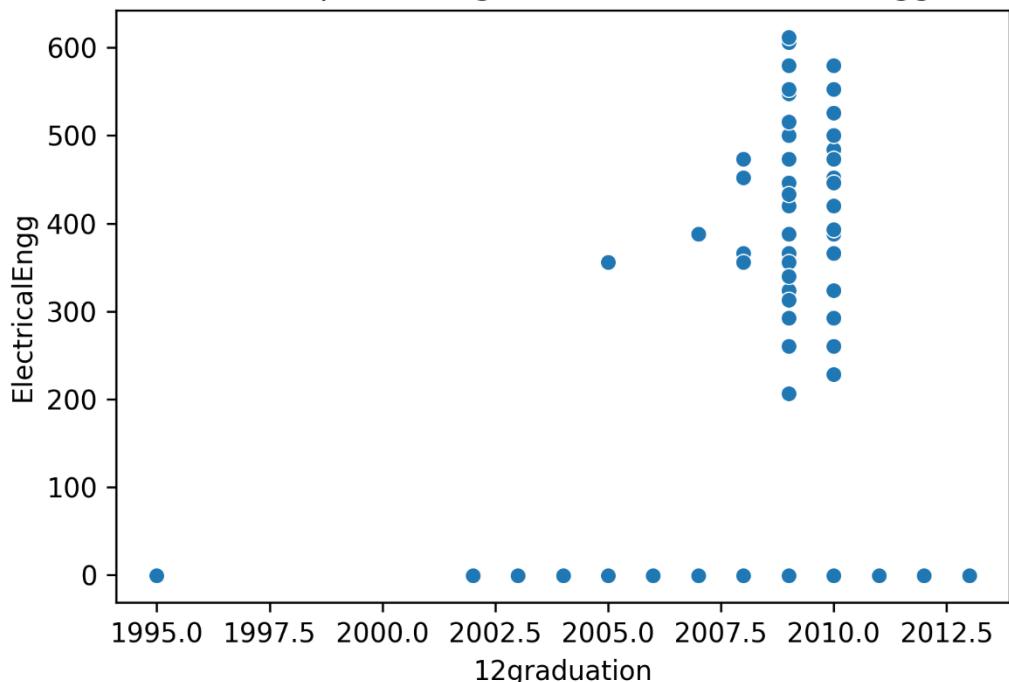
Scatter plot of 12graduation vs conscientiousness



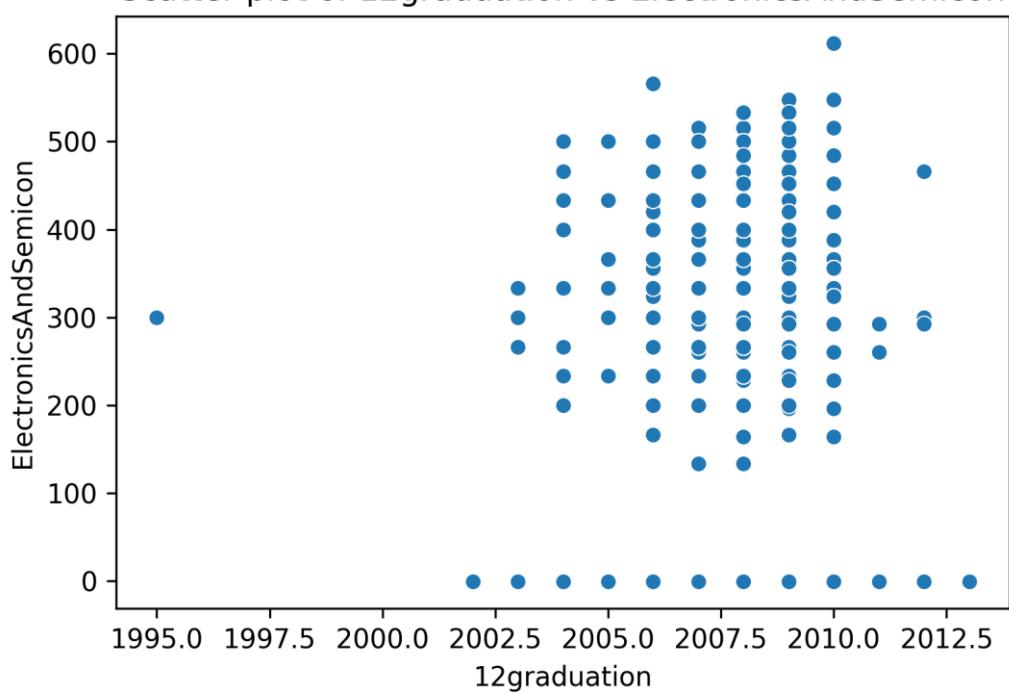
Scatter plot of 12graduation vs Domain

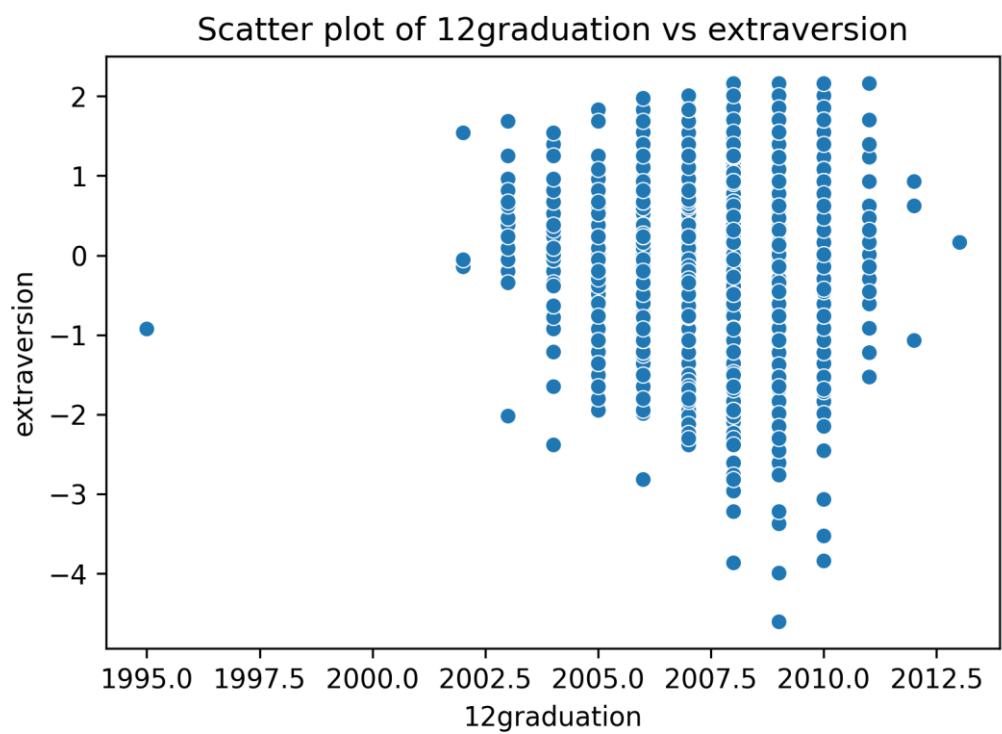
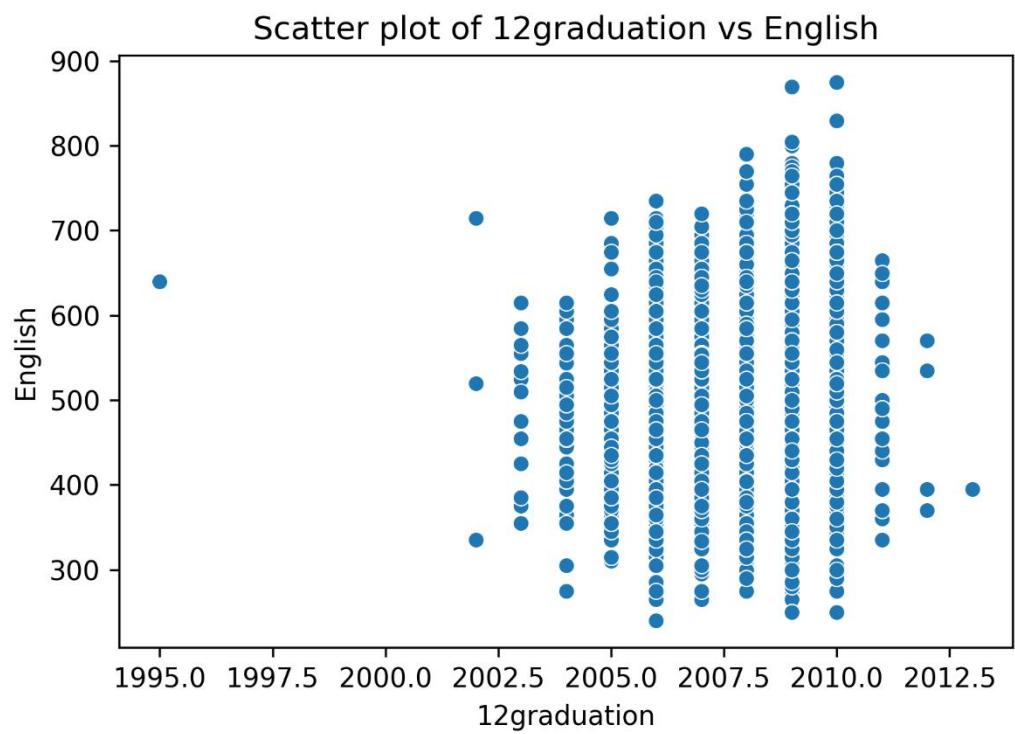


Scatter plot of 12graduation vs ElectricalEngg

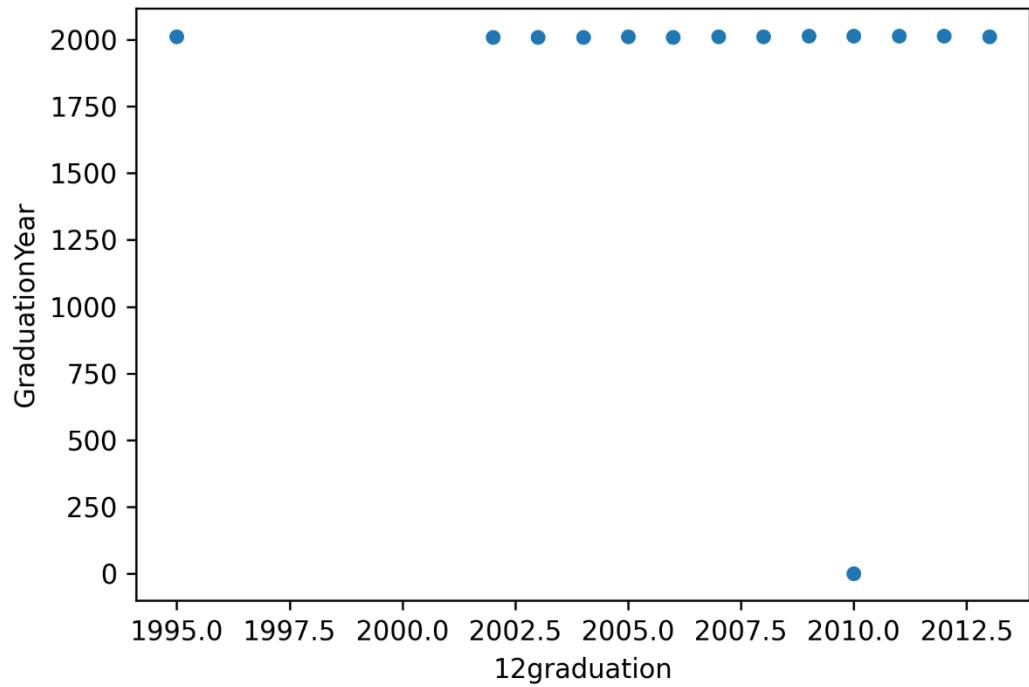


Scatter plot of 12graduation vs ElectronicsAndSemicon

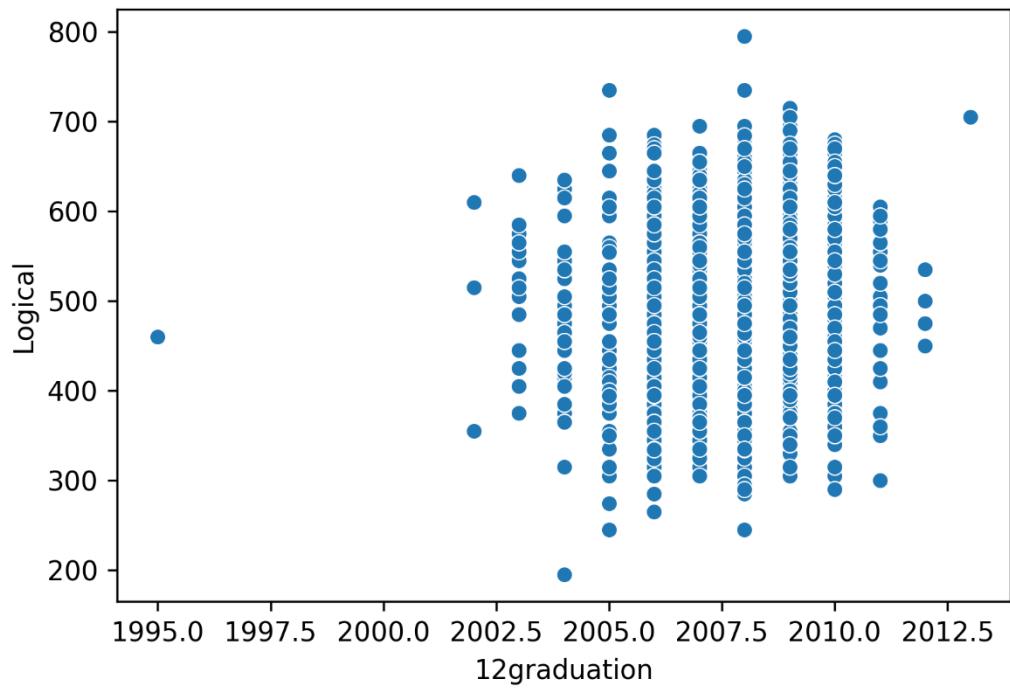




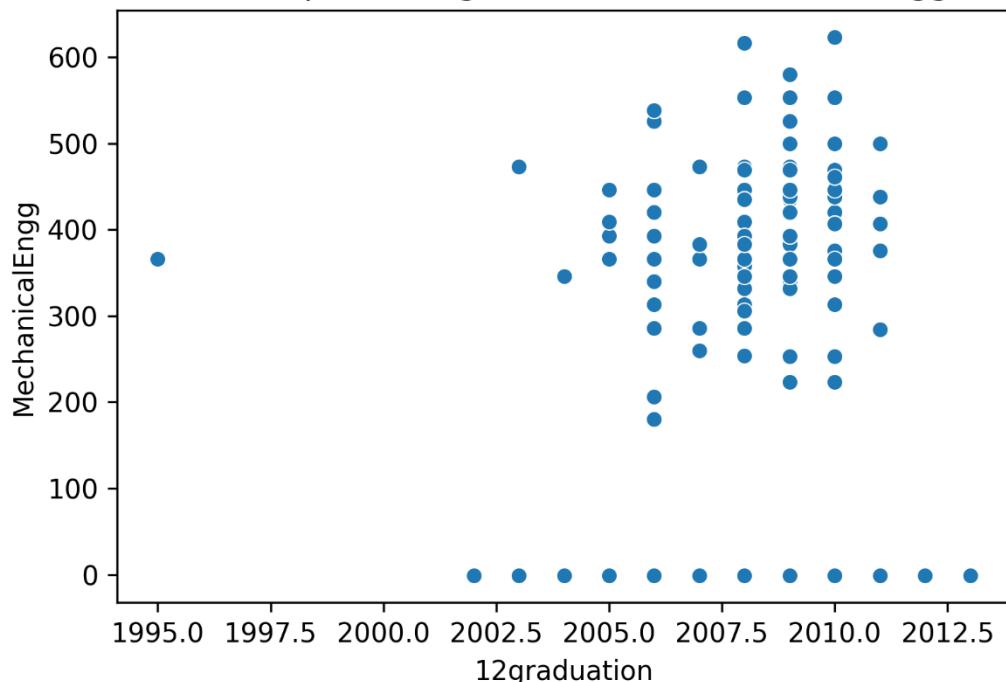
Scatter plot of 12graduation vs GraduationYear



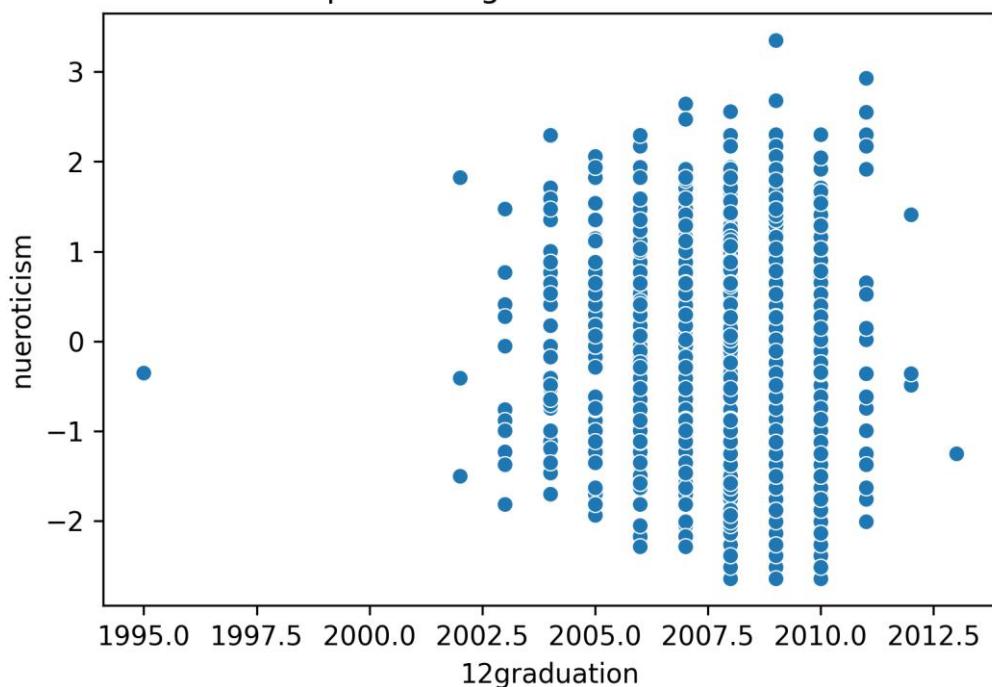
Scatter plot of 12graduation vs Logical

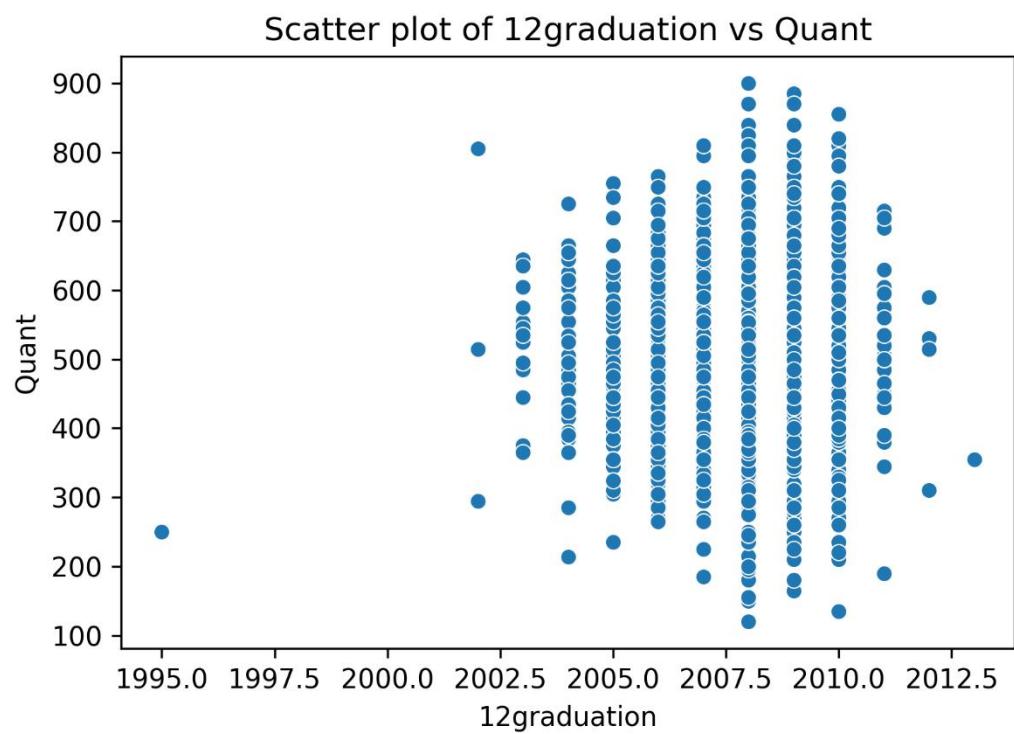
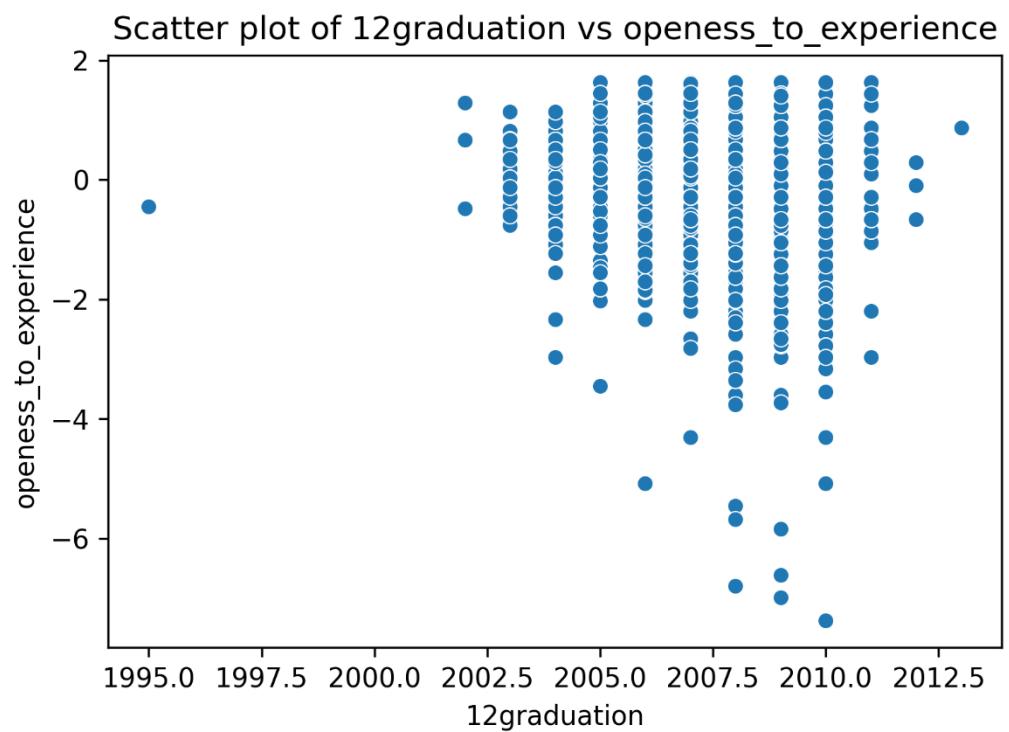


Scatter plot of 12graduation vs MechanicalEngg

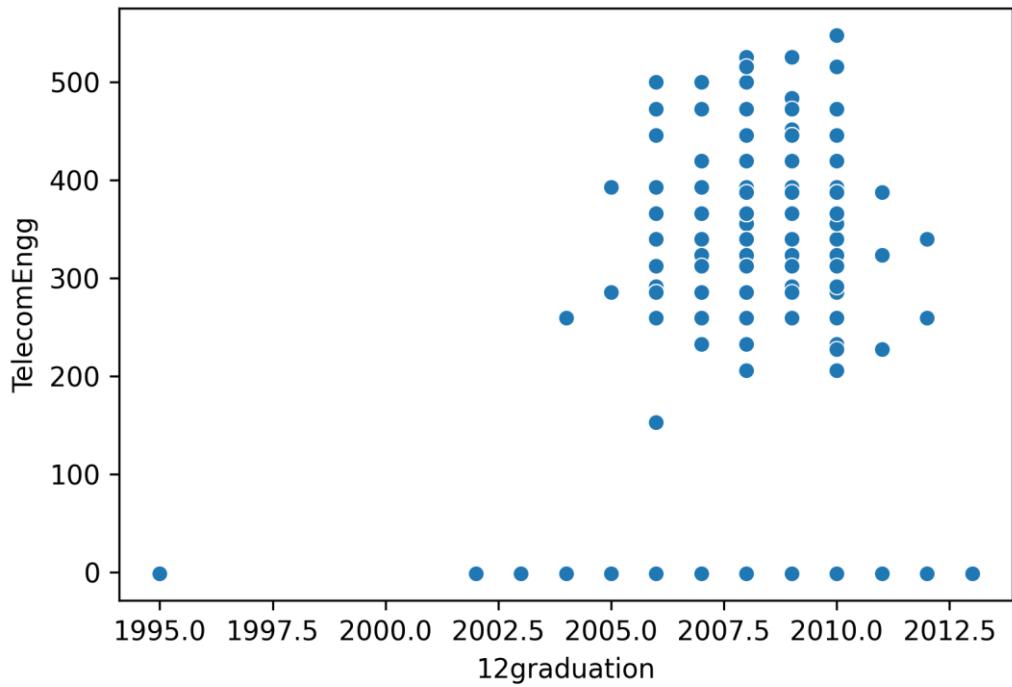


Scatter plot of 12graduation vs nueroticism

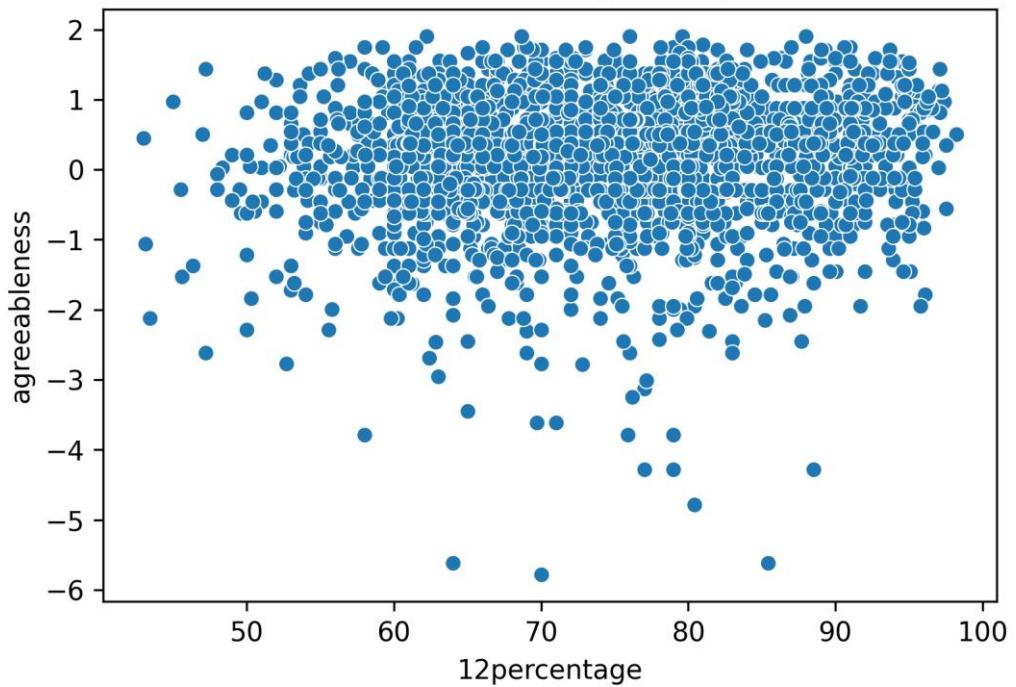




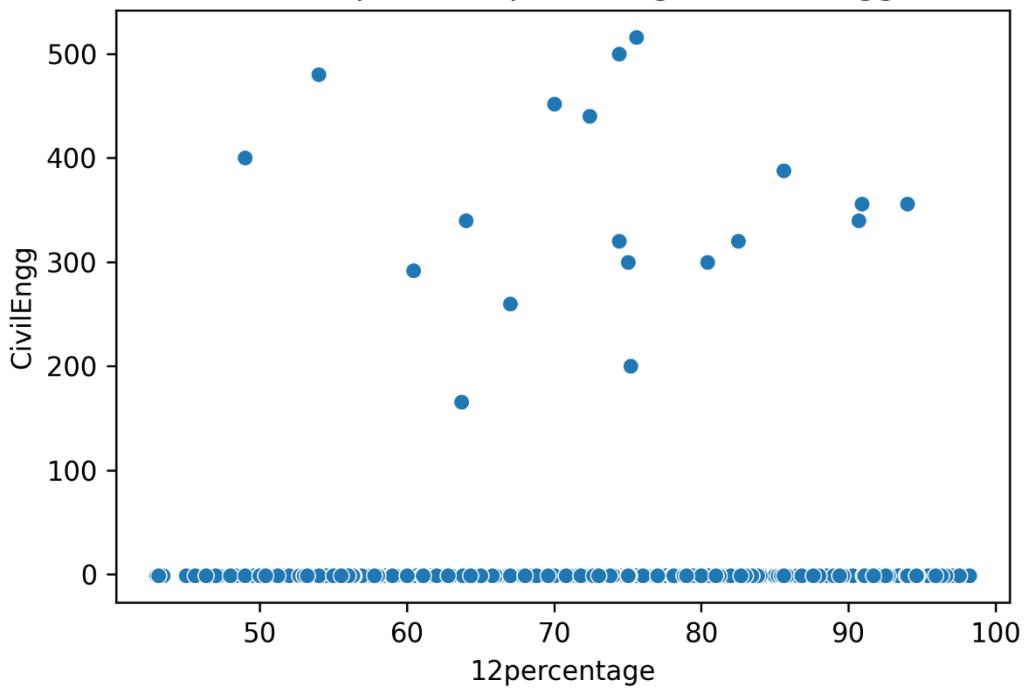
Scatter plot of 12graduation vs TelecomEngg



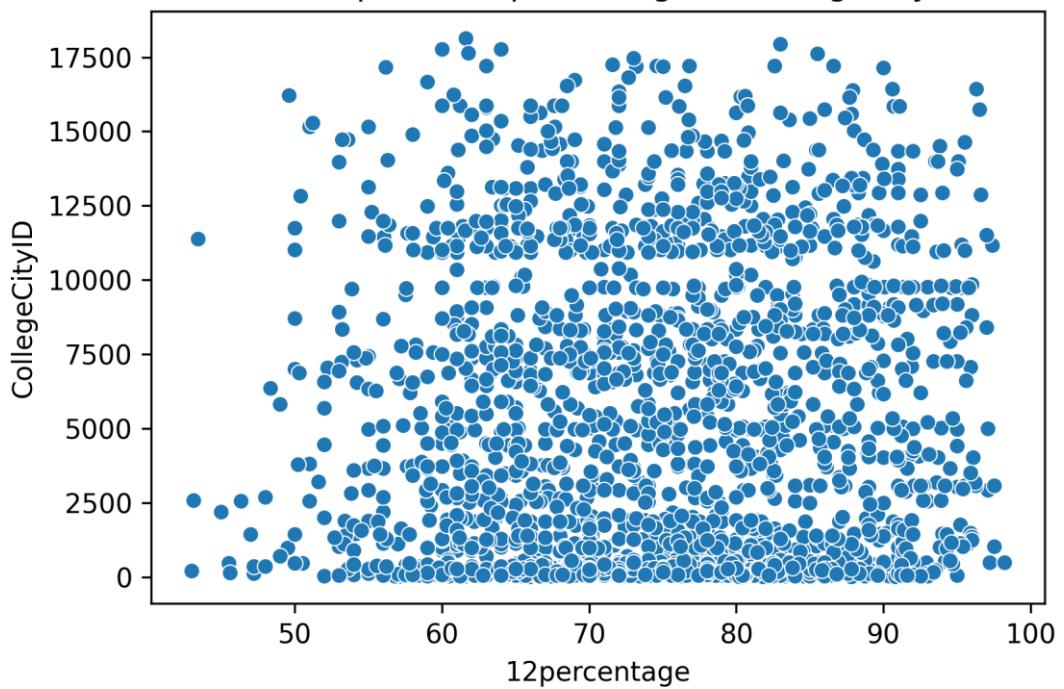
Scatter plot of 12percentage vs agreeableness



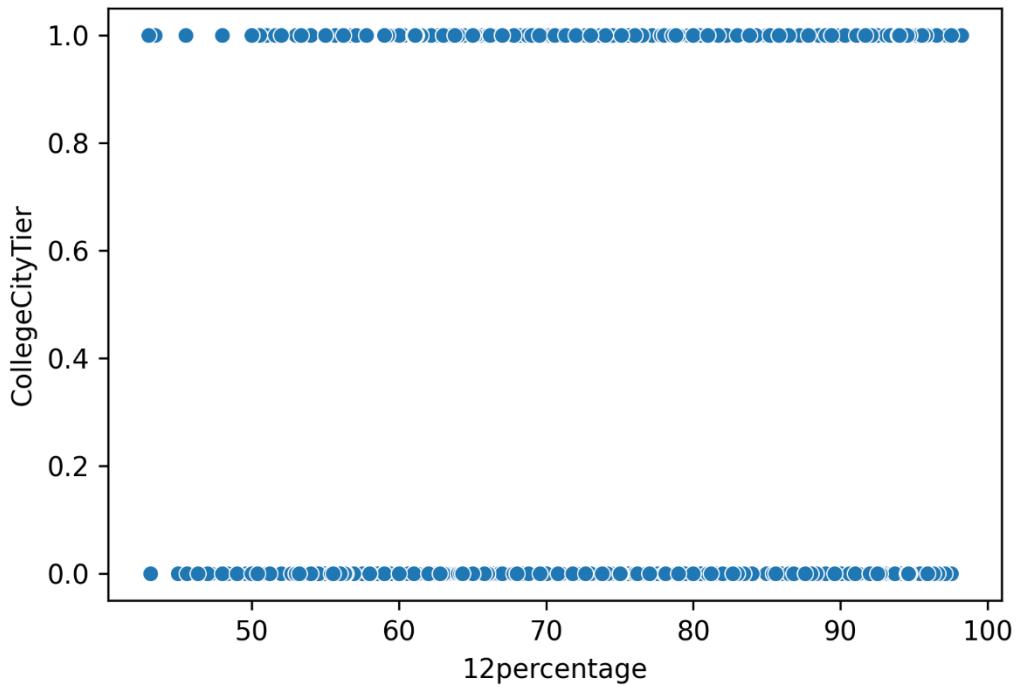
Scatter plot of 12percentage vs CivilEngg



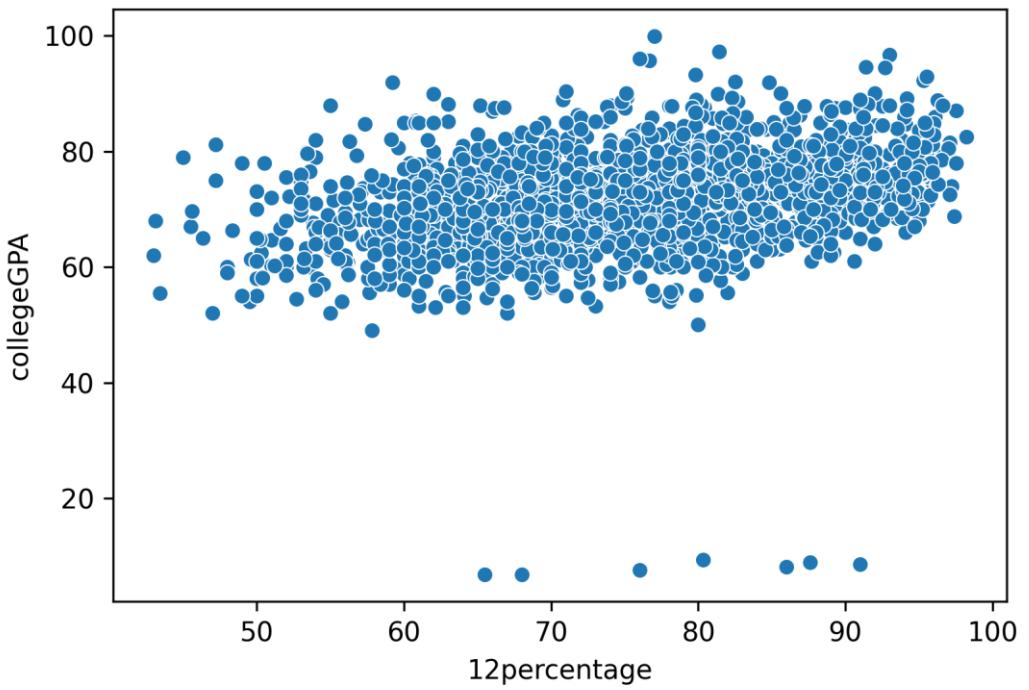
Scatter plot of 12percentage vs CollegeCityID



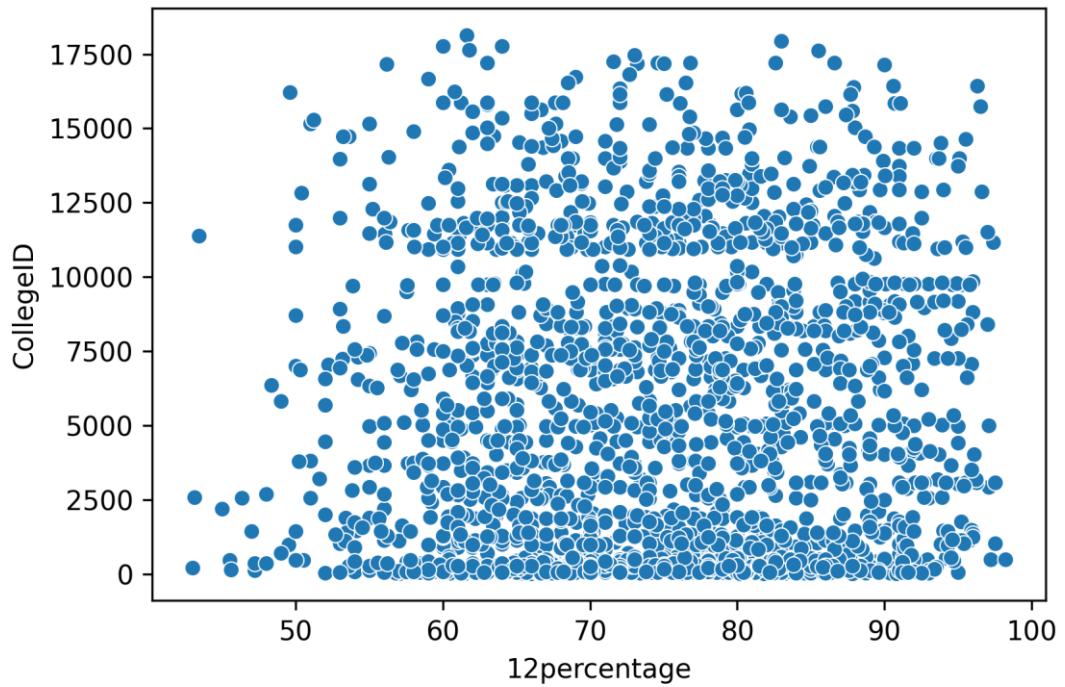
Scatter plot of 12percentage vs CollegeCityTier



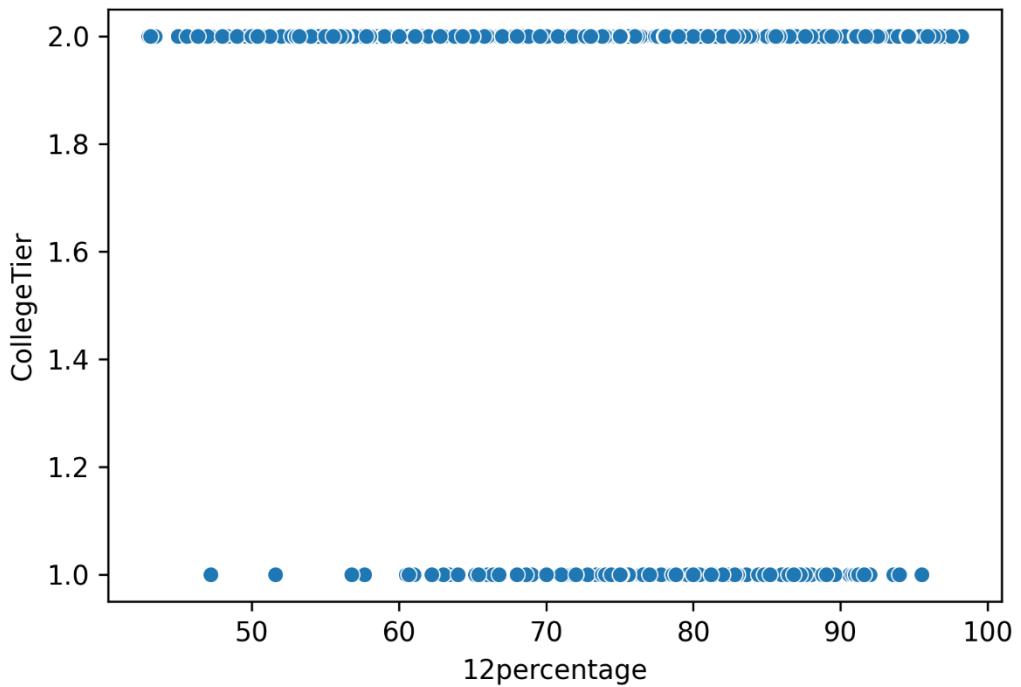
Scatter plot of 12percentage vs collegeGPA



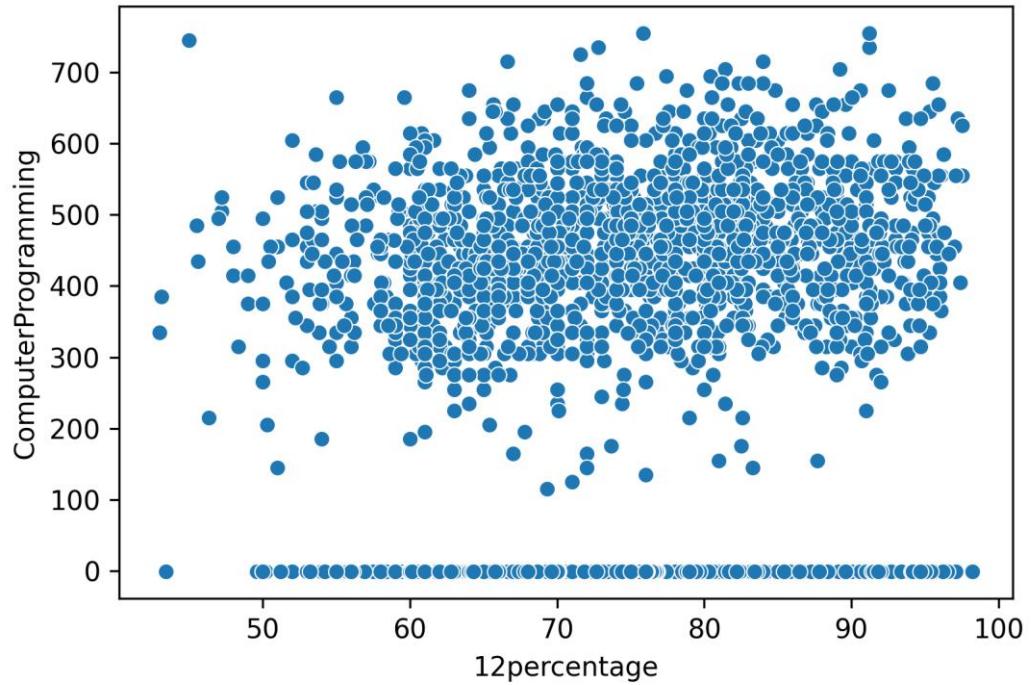
Scatter plot of 12percentage vs CollegeID



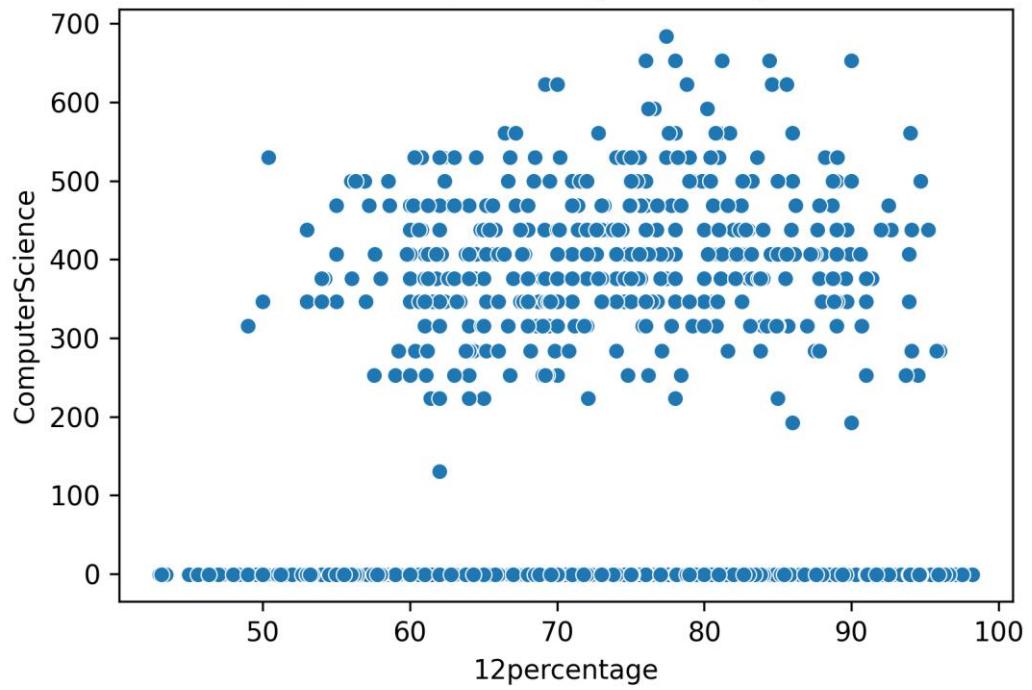
Scatter plot of 12percentage vs CollegeTier



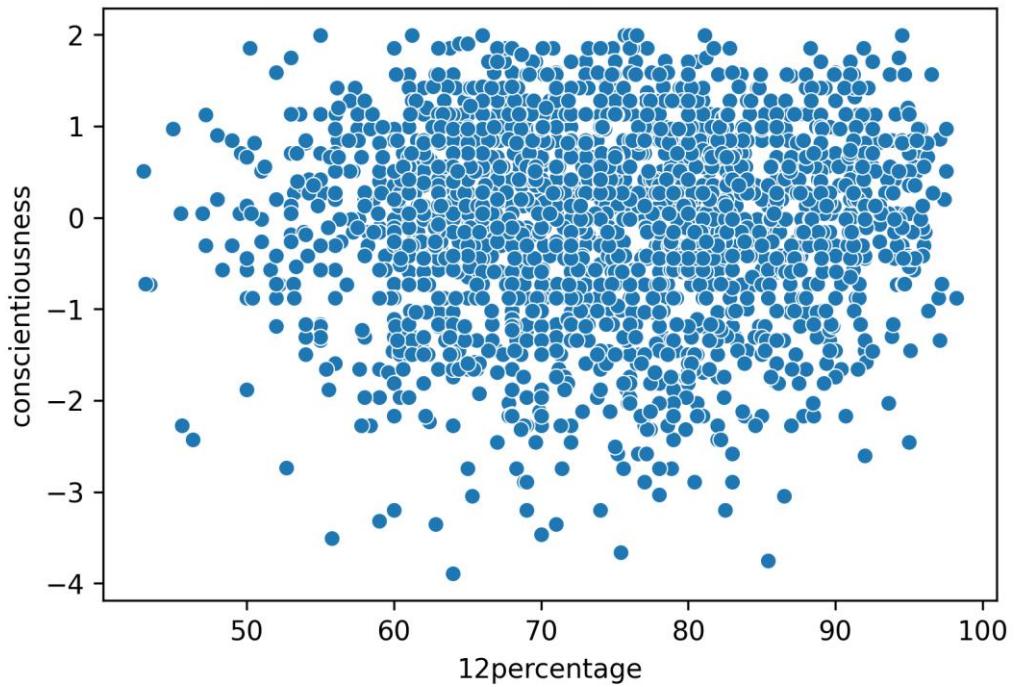
Scatter plot of 12percentage vs ComputerProgramming



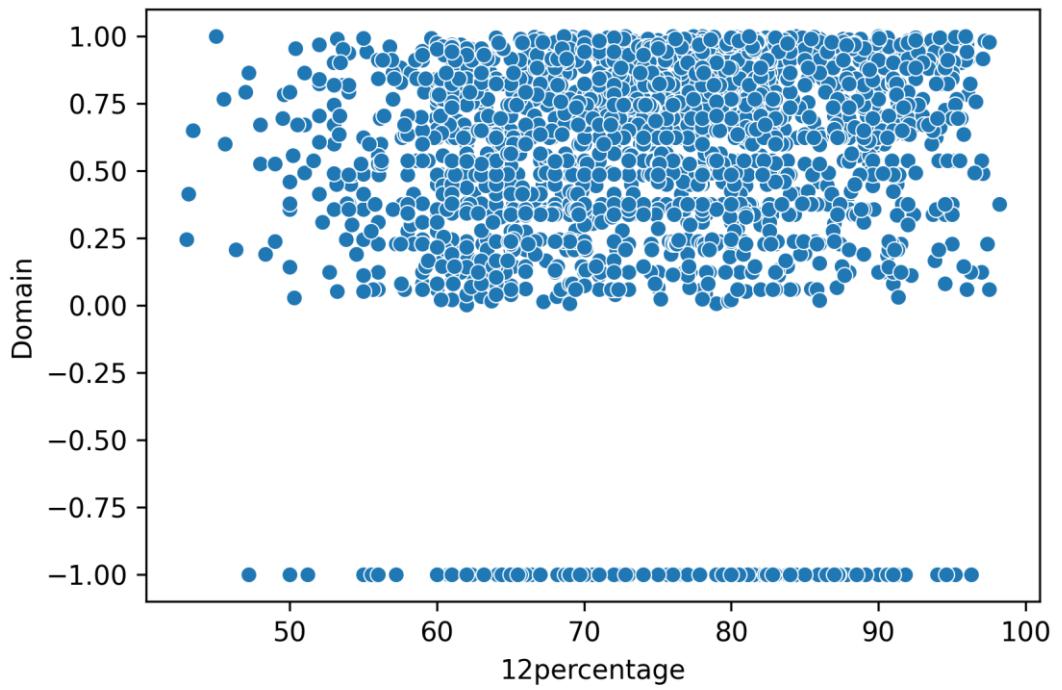
Scatter plot of 12percentage vs ComputerScience



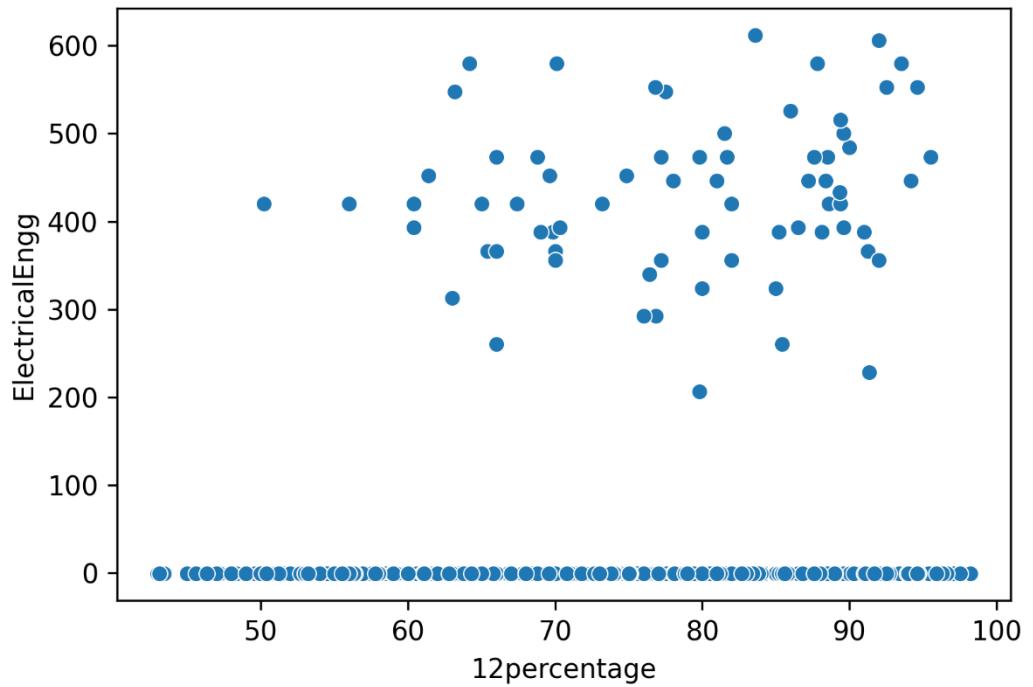
Scatter plot of 12percentage vs conscientiousness



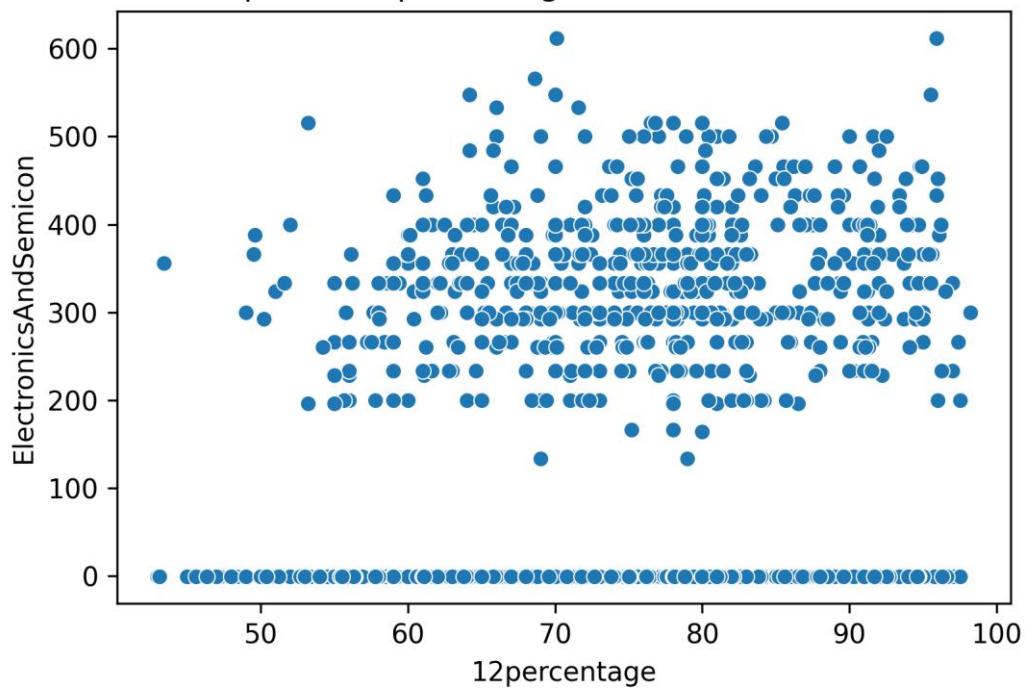
Scatter plot of 12percentage vs Domain



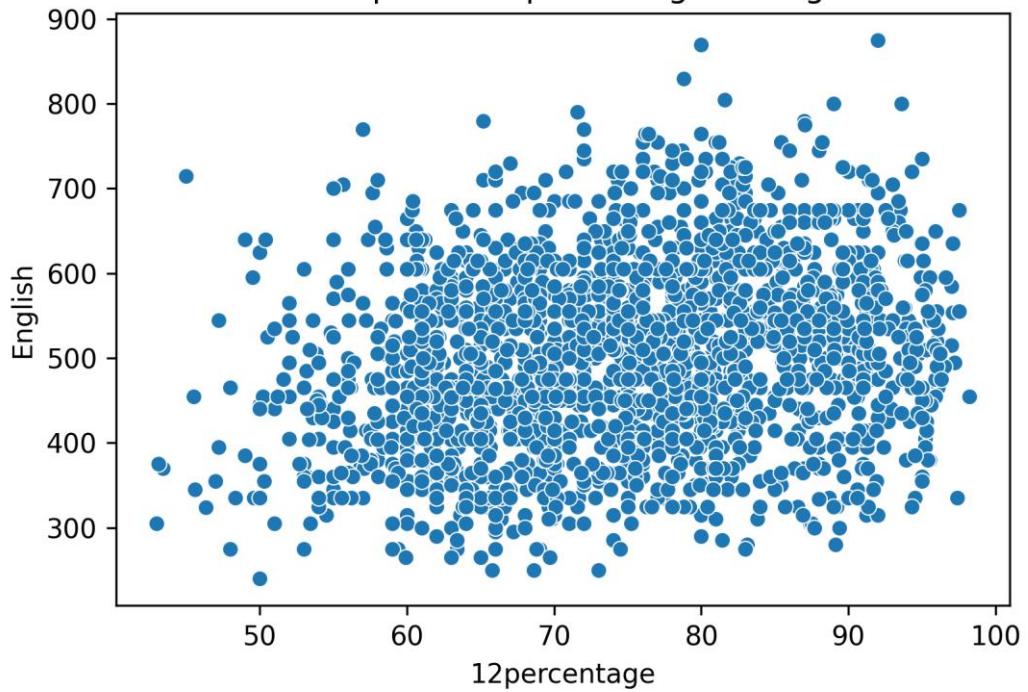
Scatter plot of 12percentage vs ElectricalEngg



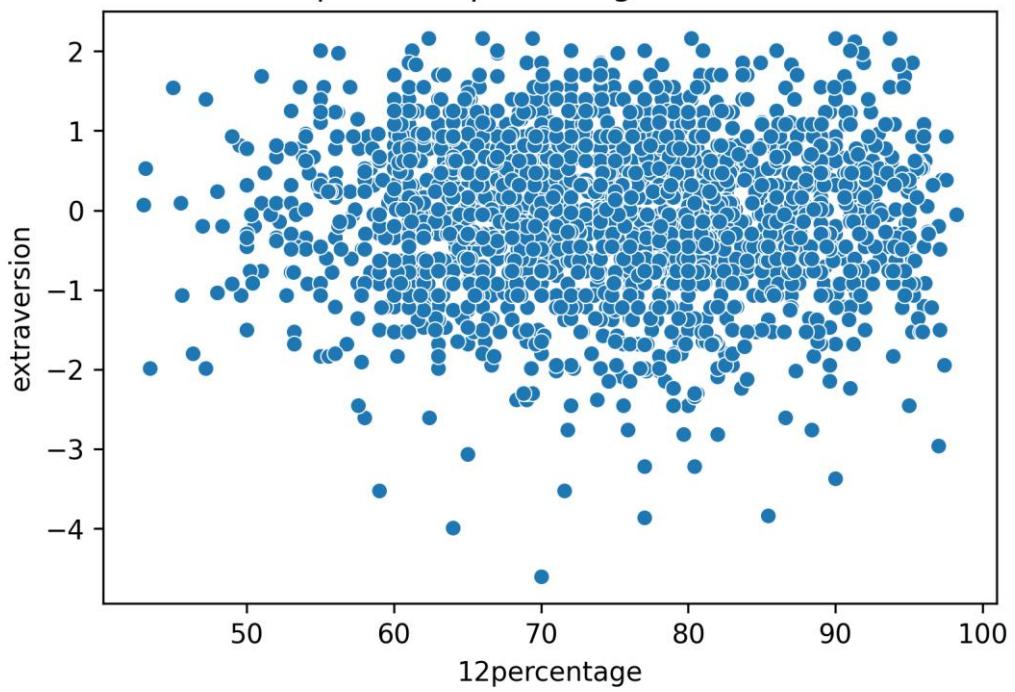
Scatter plot of 12percentage vs ElectronicsAndSemicon



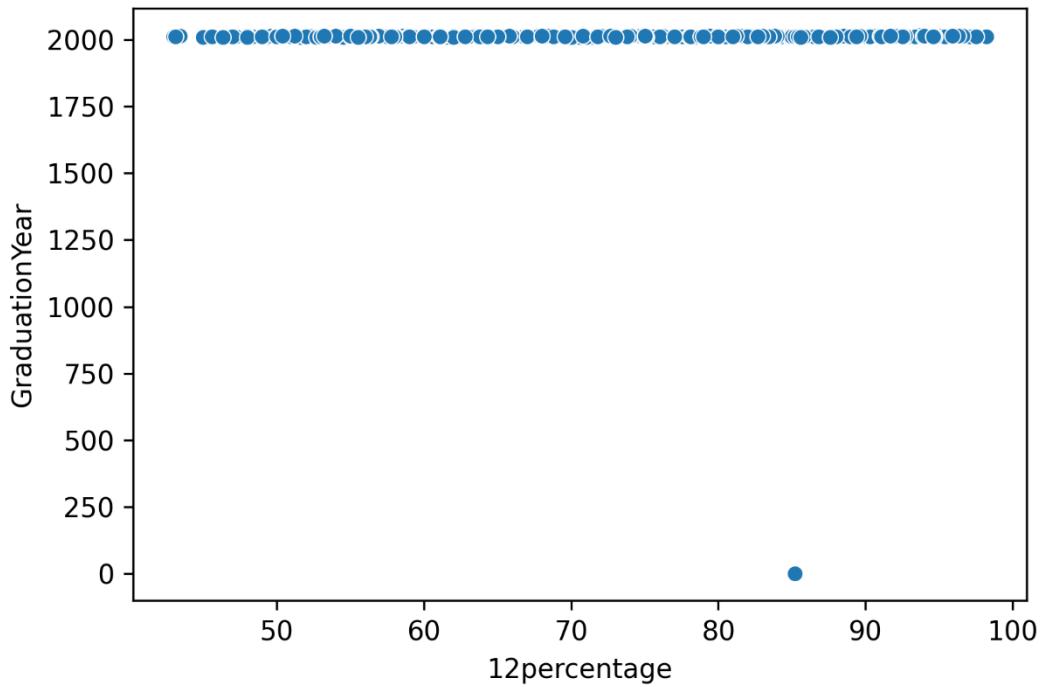
Scatter plot of 12percentage vs English



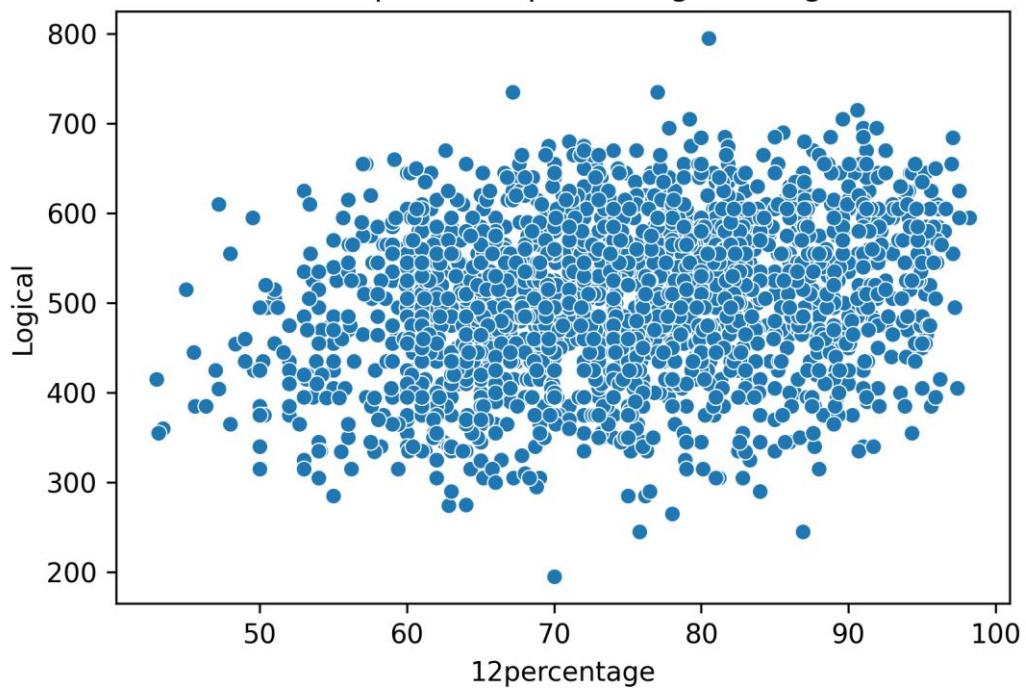
Scatter plot of 12percentage vs extraversion



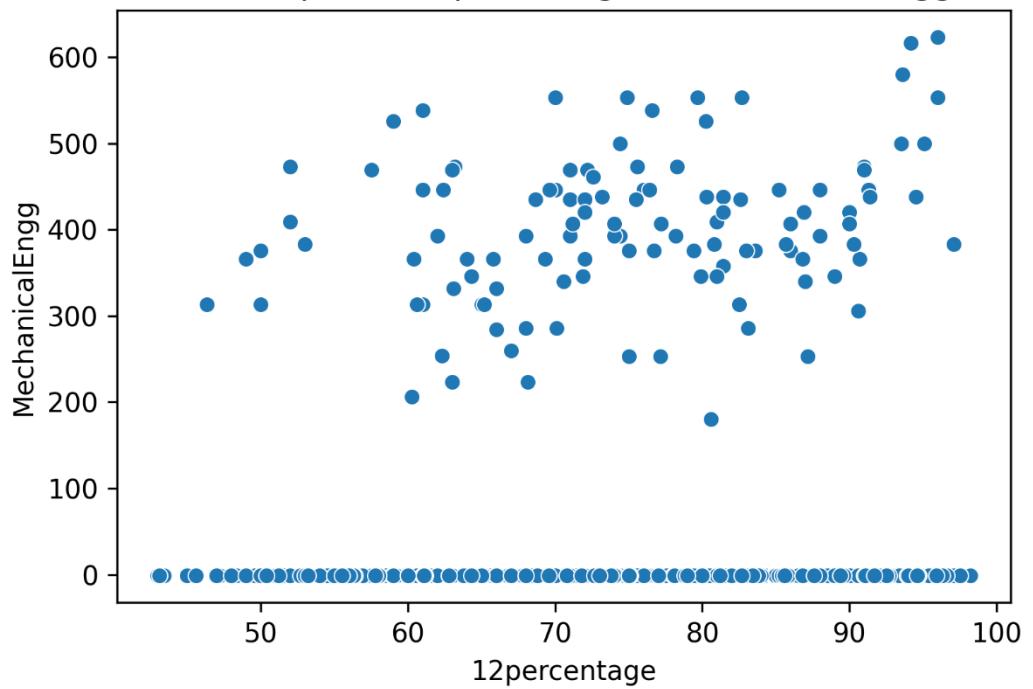
Scatter plot of 12percentage vs GraduationYear



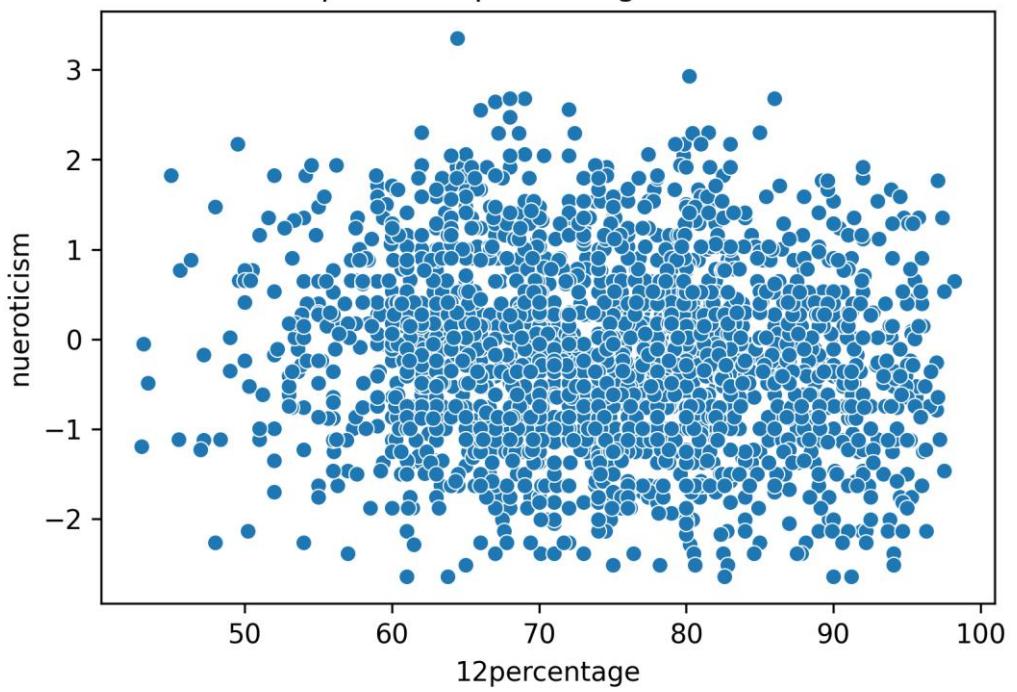
Scatter plot of 12percentage vs Logical



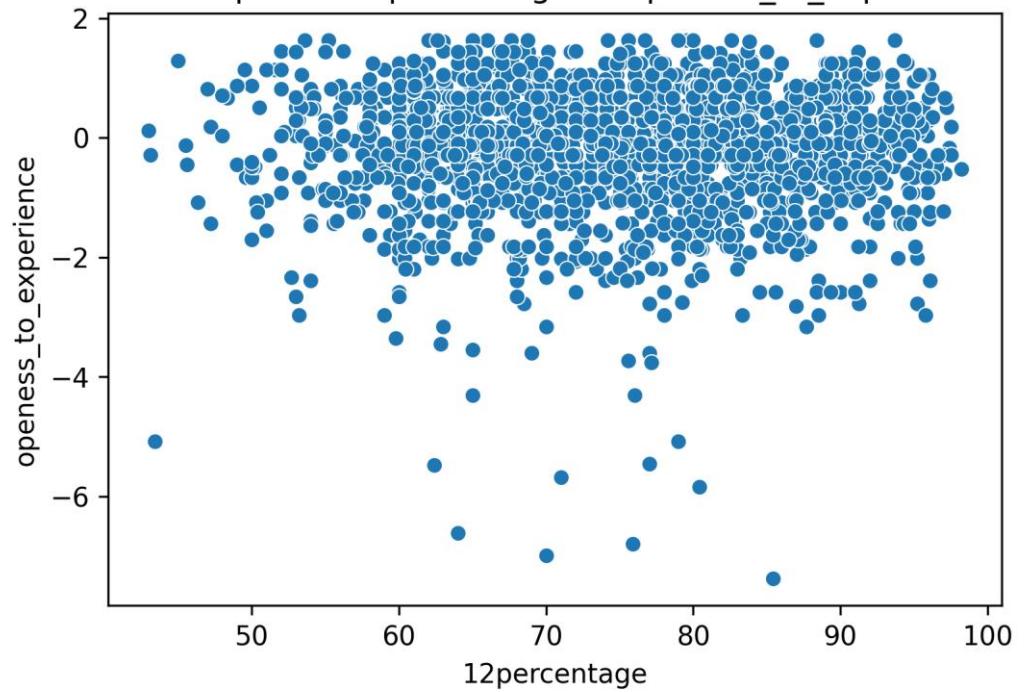
Scatter plot of 12percentage vs MechanicalEngg



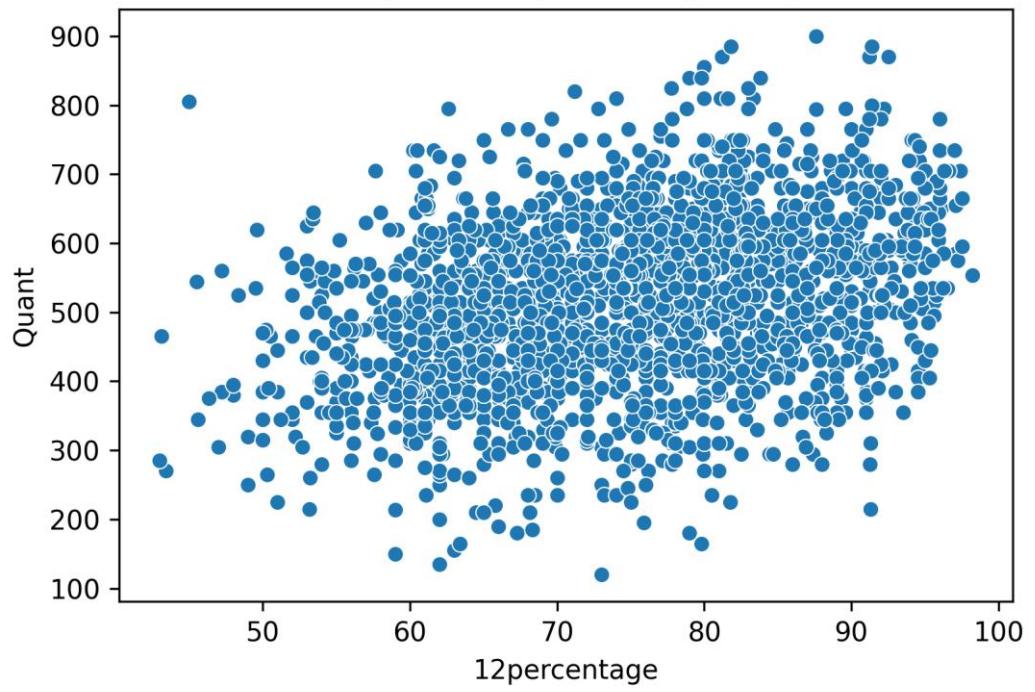
Scatter plot of 12percentage vs nueroticism



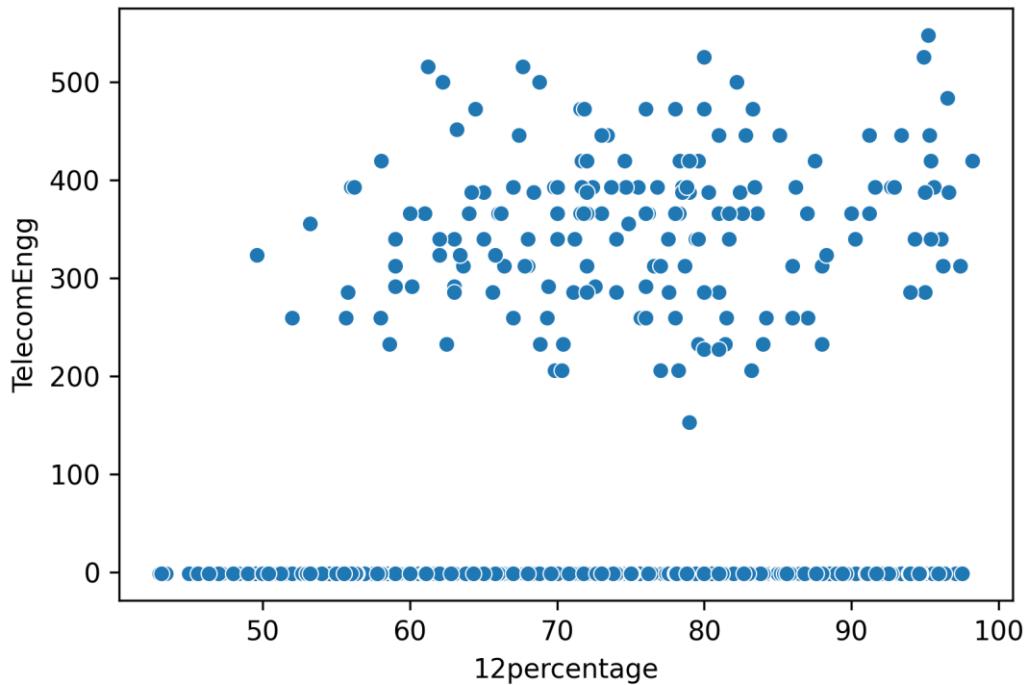
Scatter plot of 12percentage vs openness_to_experience



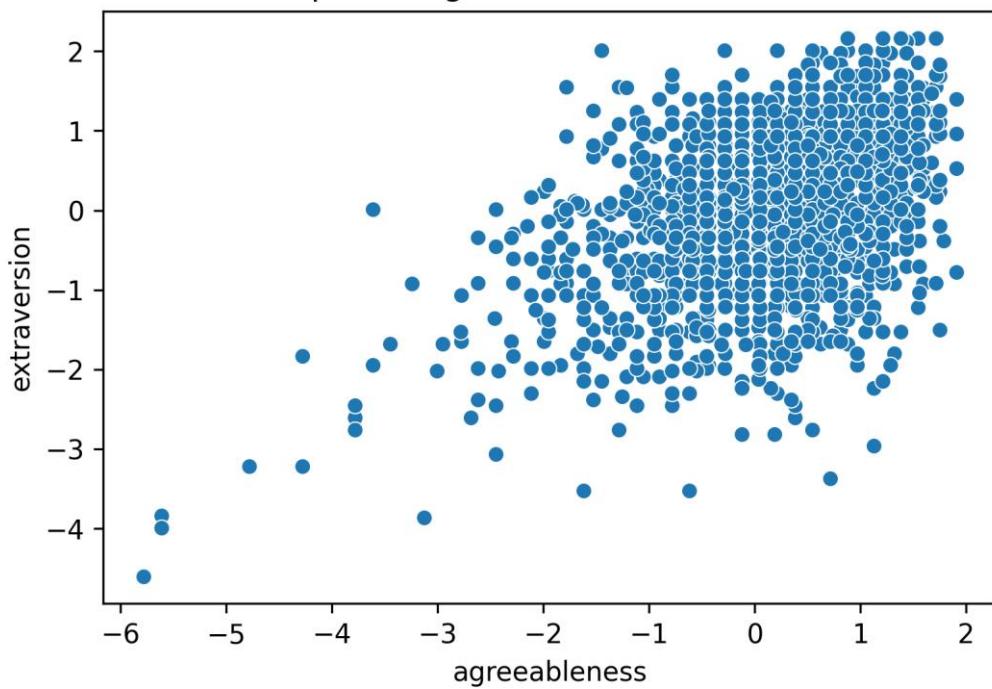
Scatter plot of 12percentage vs Quant



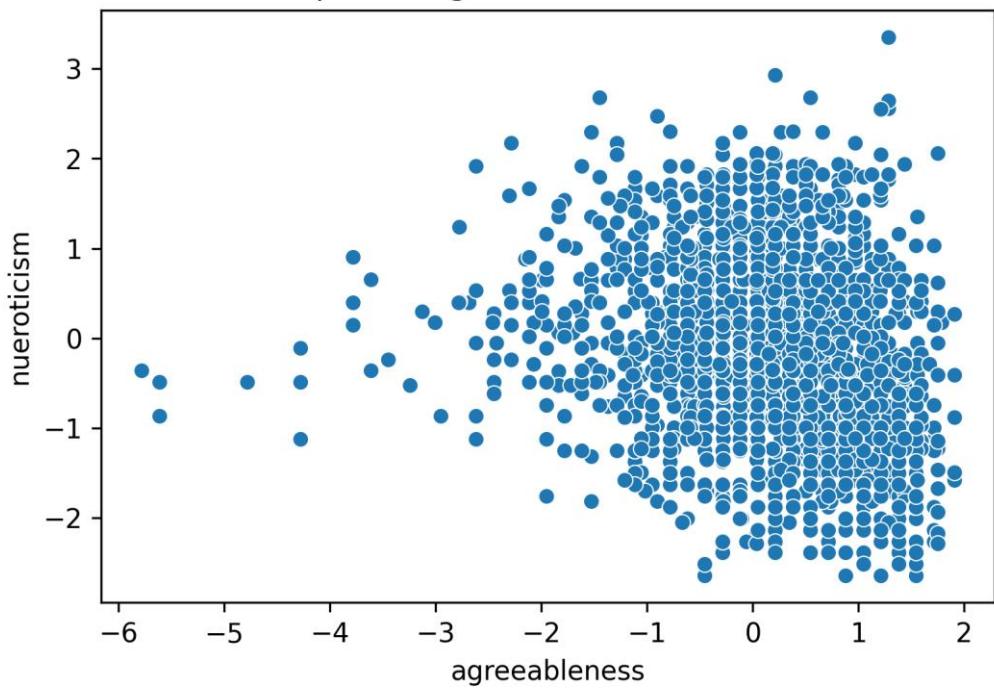
Scatter plot of 12percentage vs TelecomEngg



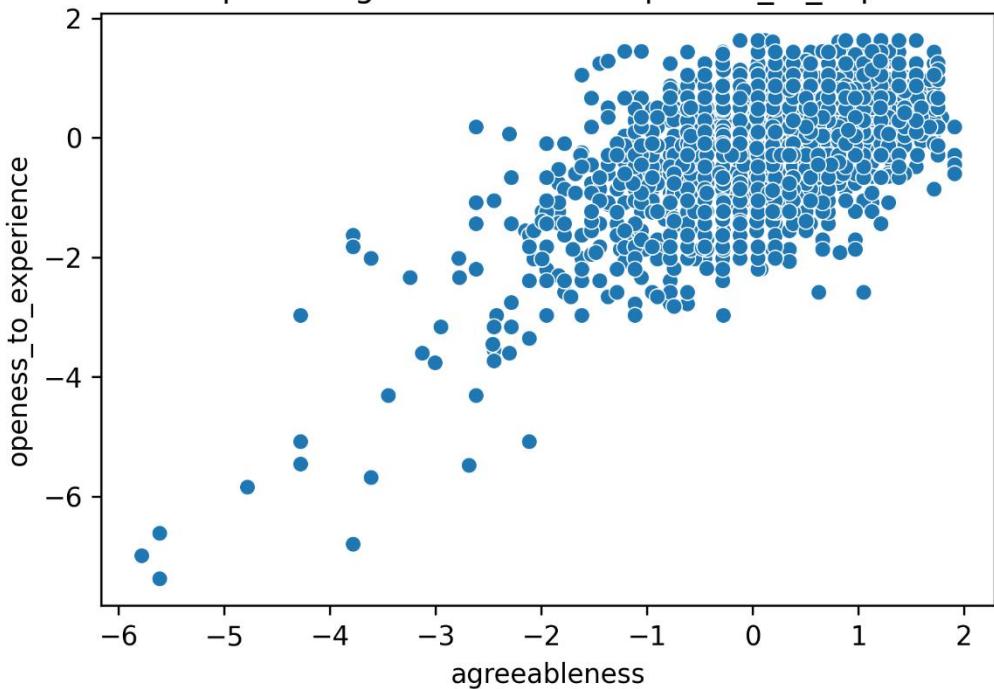
Scatter plot of agreeableness vs extraversion



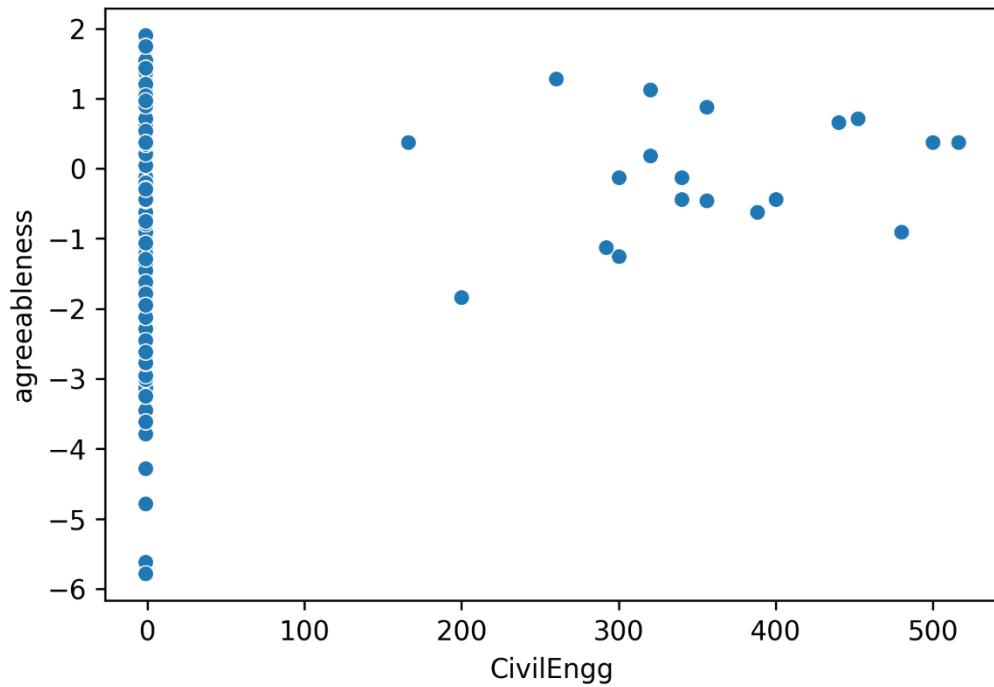
Scatter plot of agreeableness vs nueroticism



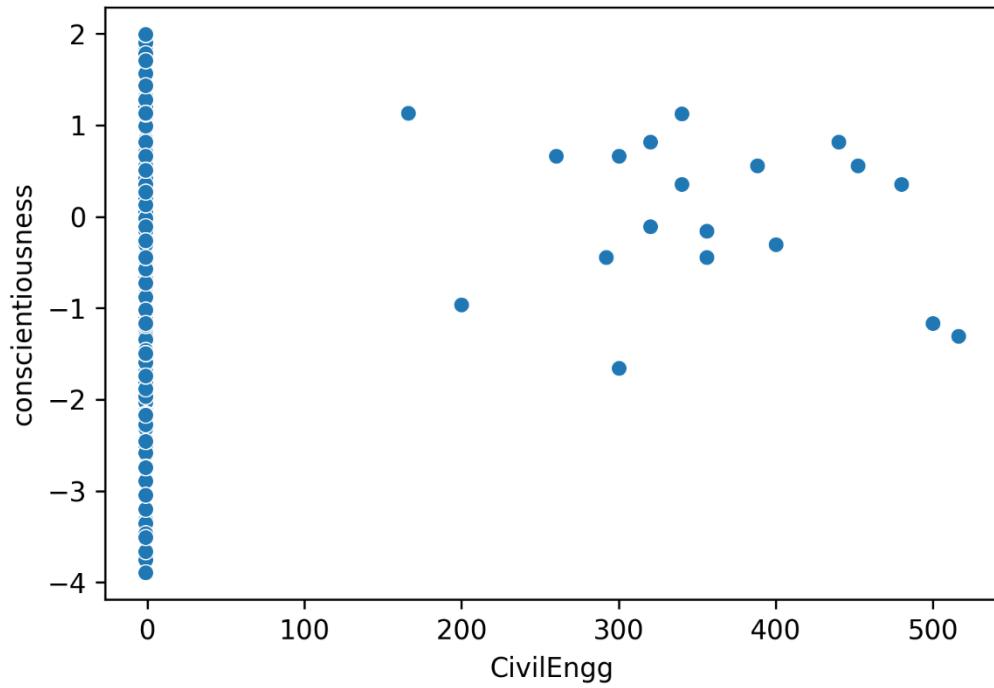
Scatter plot of agreeableness vs openness_to_experience



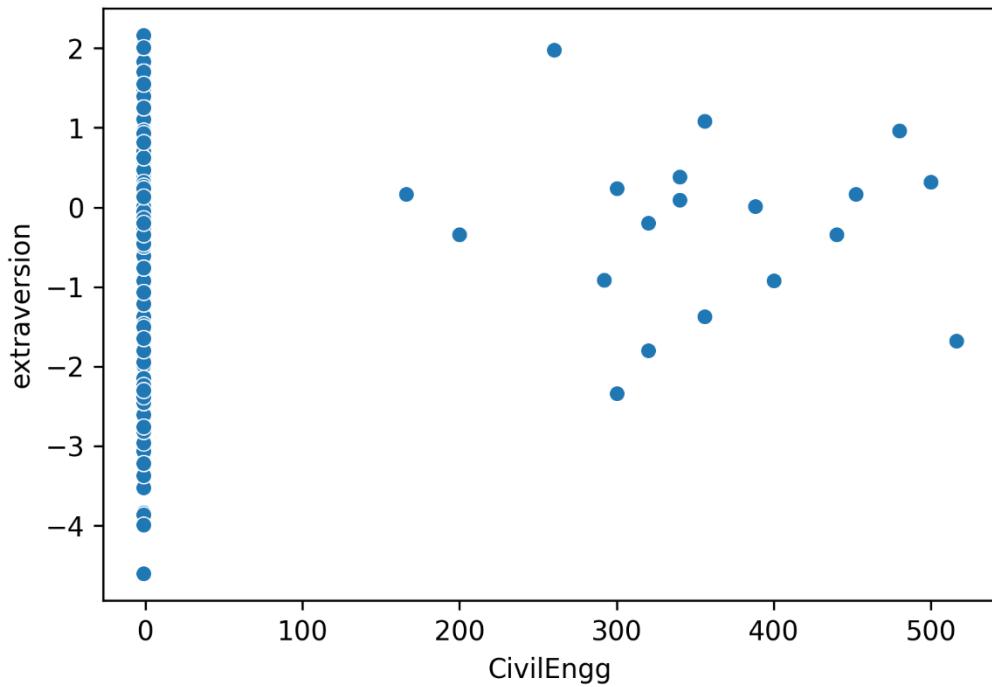
Scatter plot of CivilEngg vs agreeableness



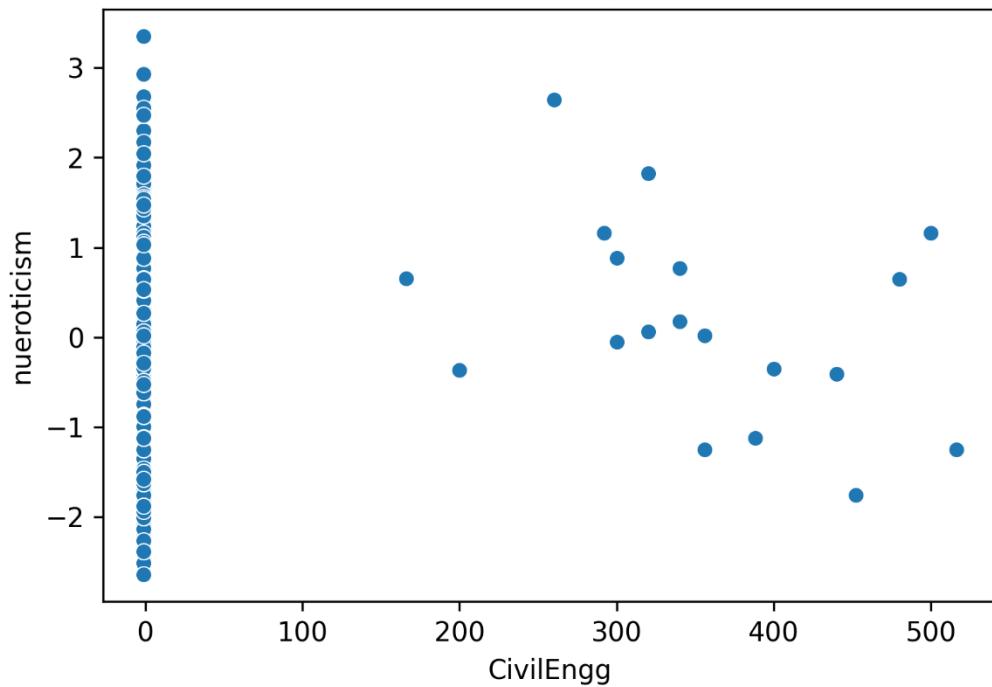
Scatter plot of CivilEngg vs conscientiousness

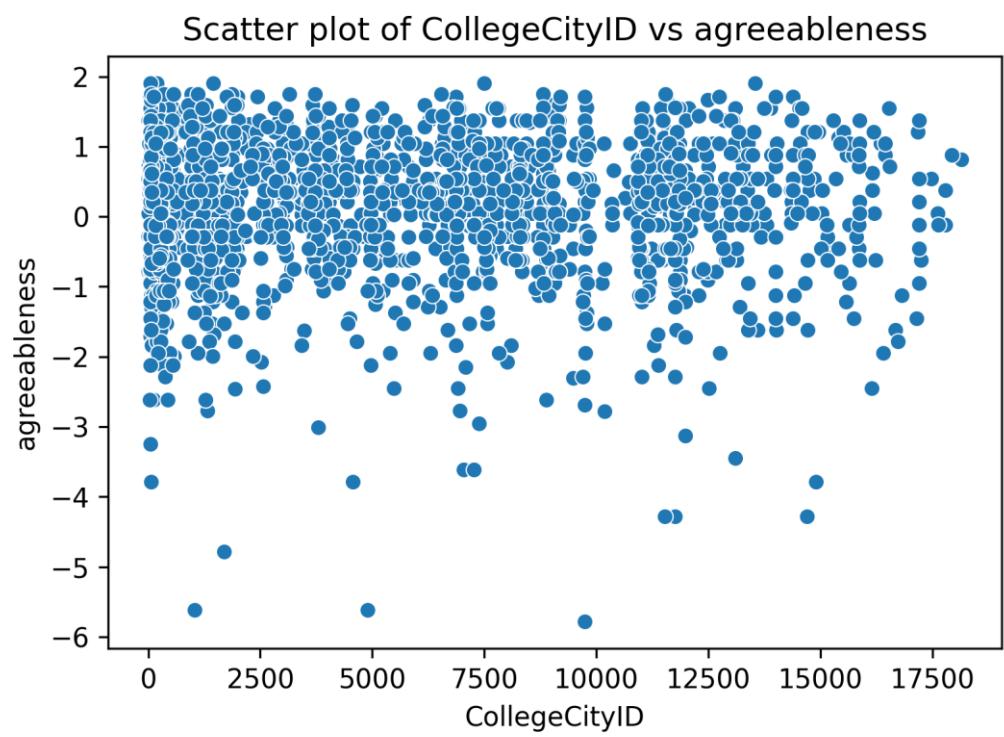
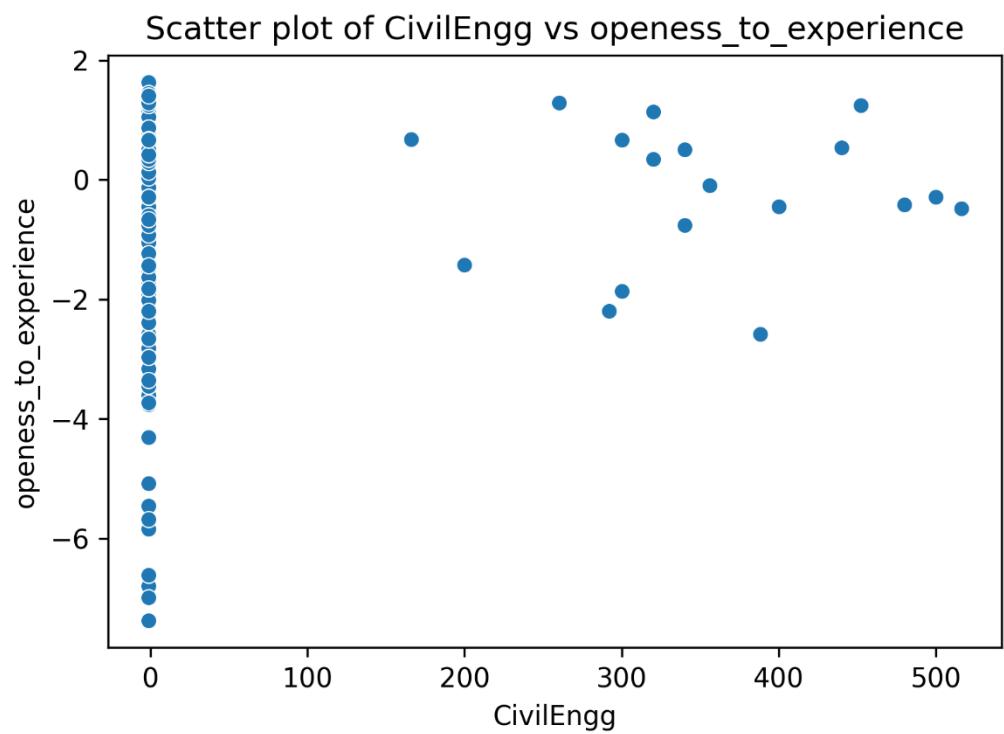


Scatter plot of CivilEngg vs extraversion

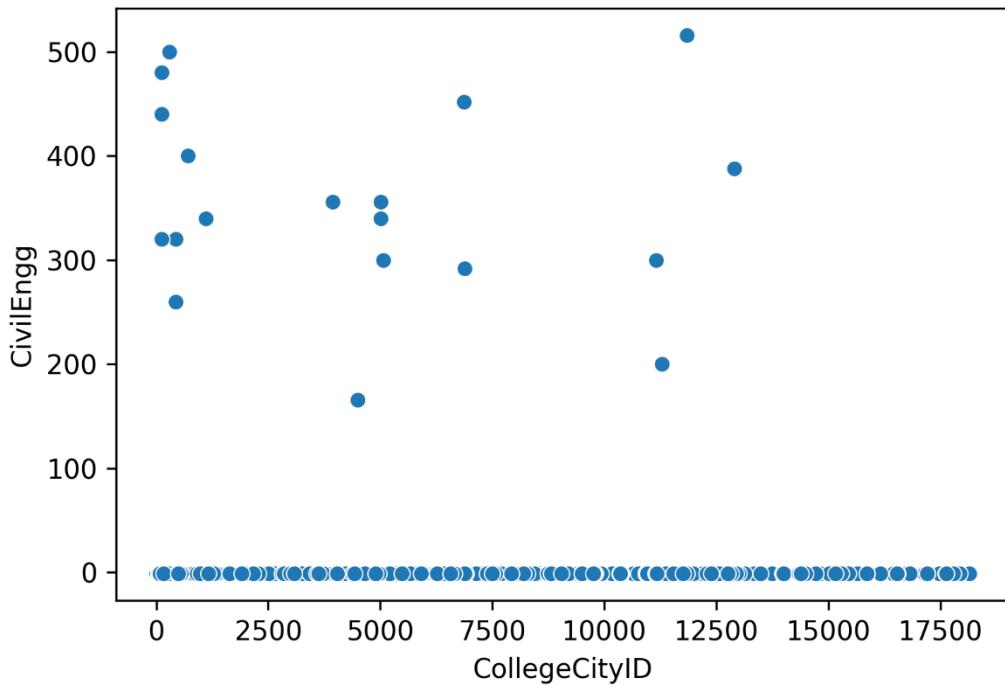


Scatter plot of CivilEngg vs nueroticism

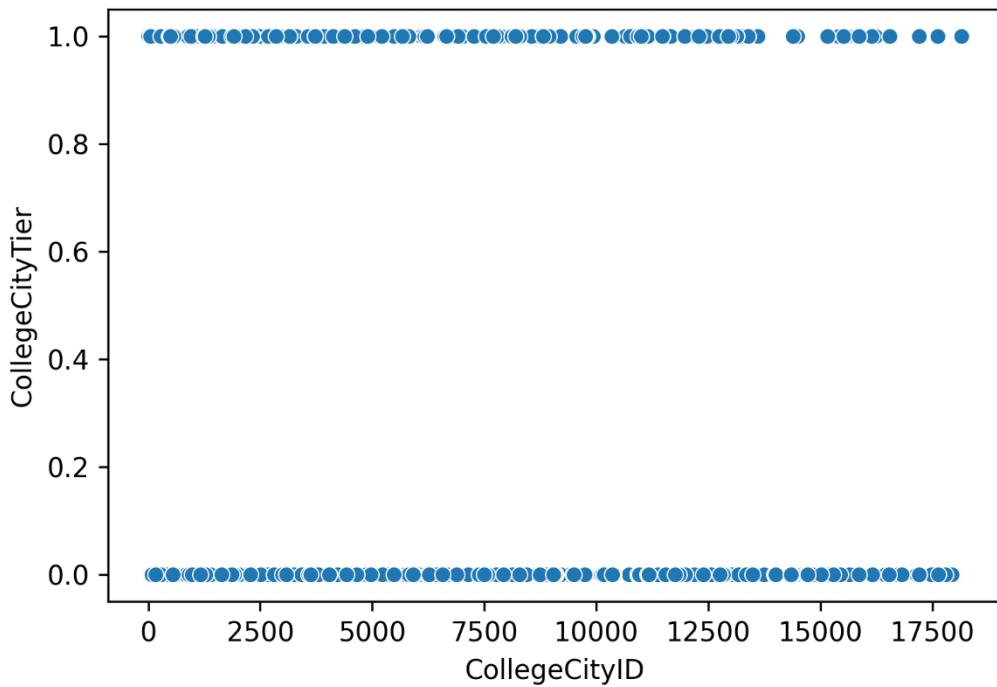




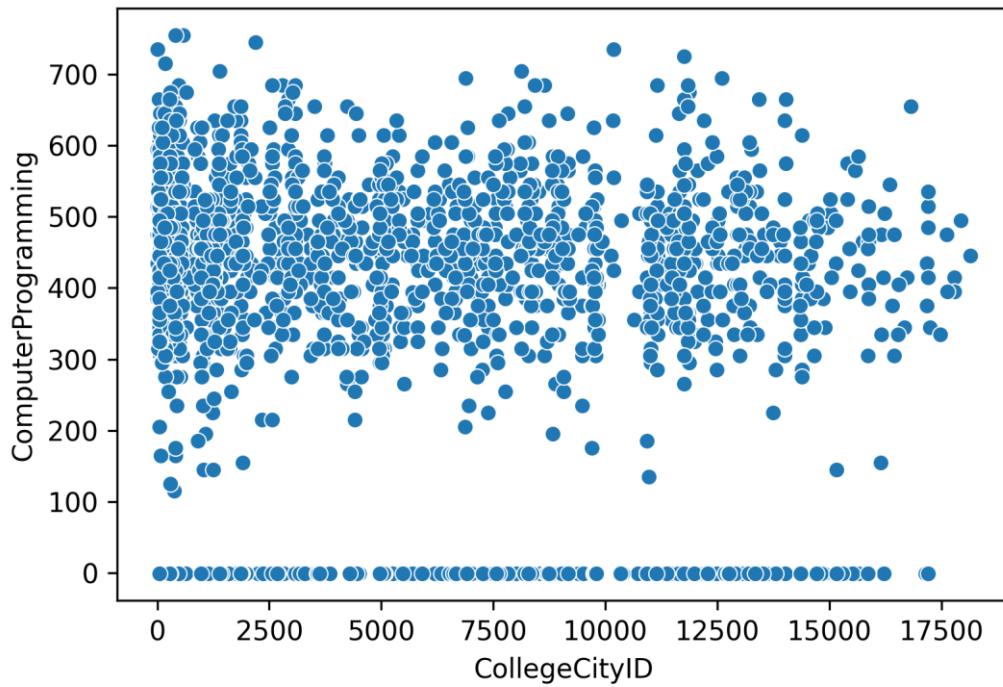
Scatter plot of CollegeCityID vs CivilEngg



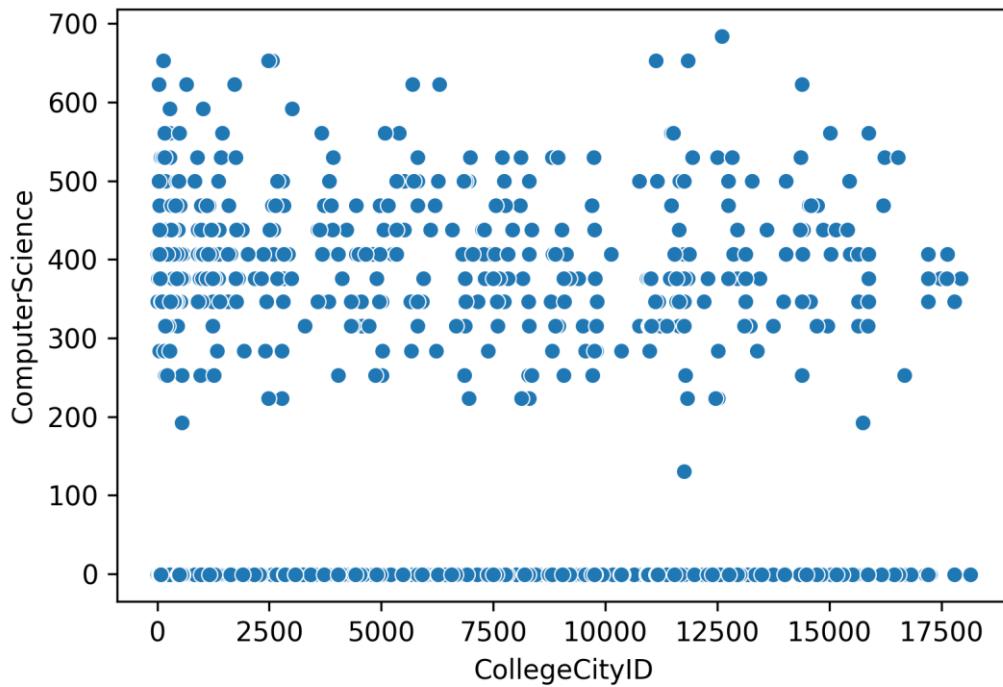
Scatter plot of CollegeCityID vs CollegeCityTier



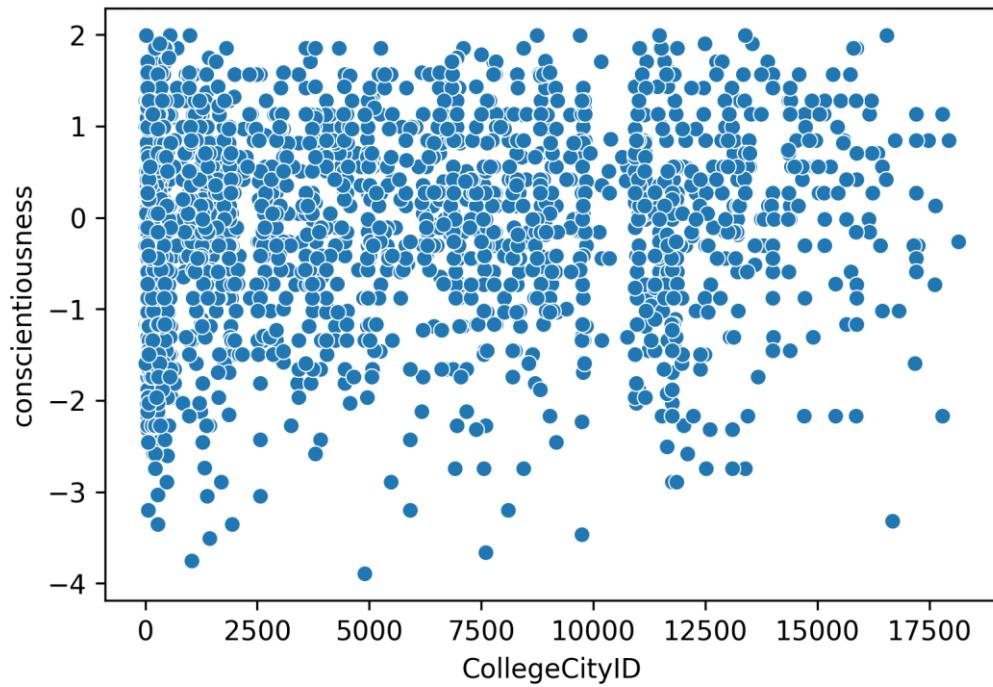
Scatter plot of CollegeCityID vs ComputerProgramming



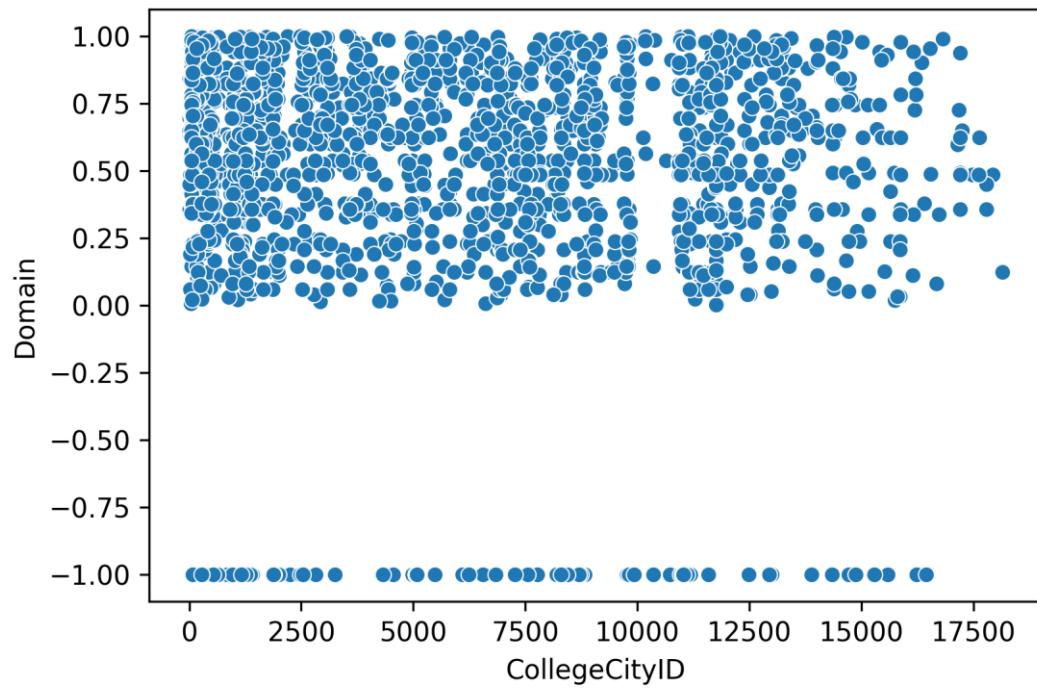
Scatter plot of CollegeCityID vs ComputerScience



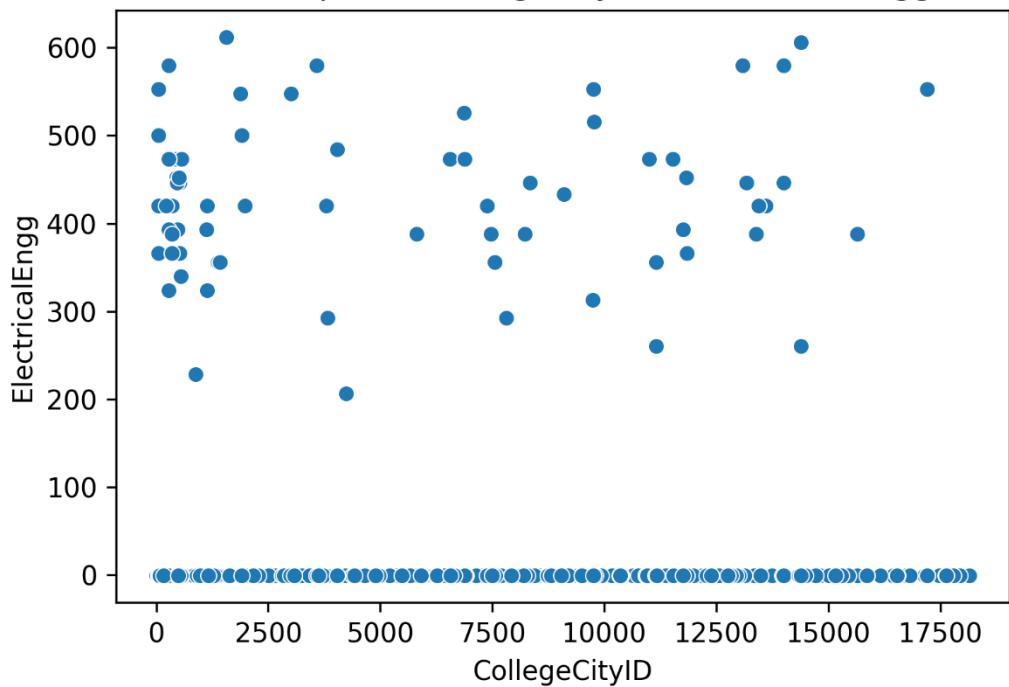
Scatter plot of CollegeCityID vs conscientiousness



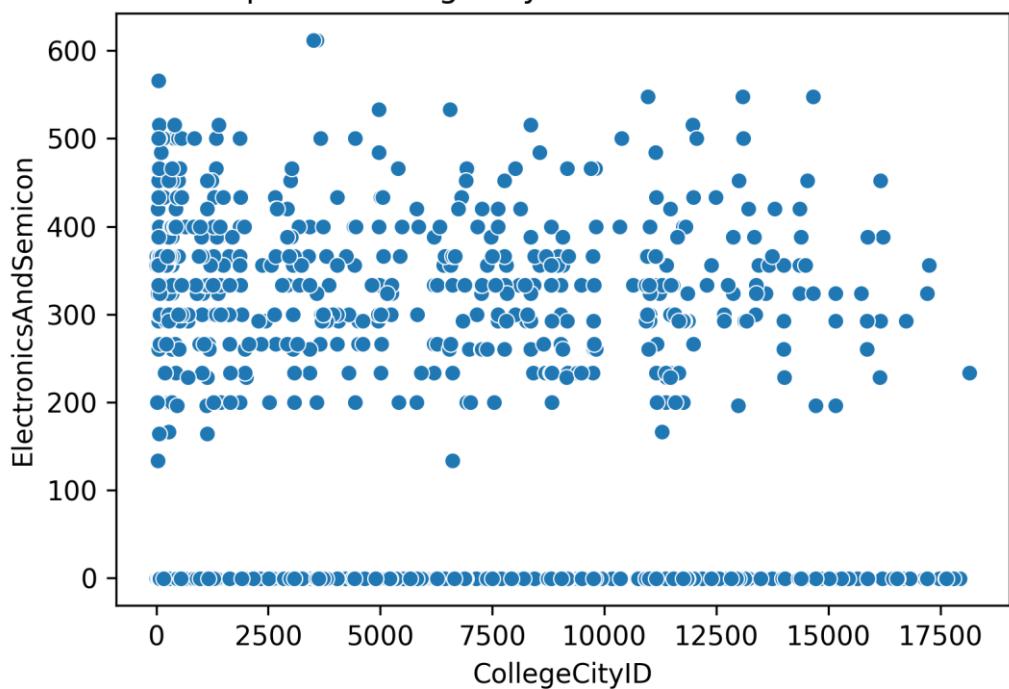
Scatter plot of CollegeCityID vs Domain



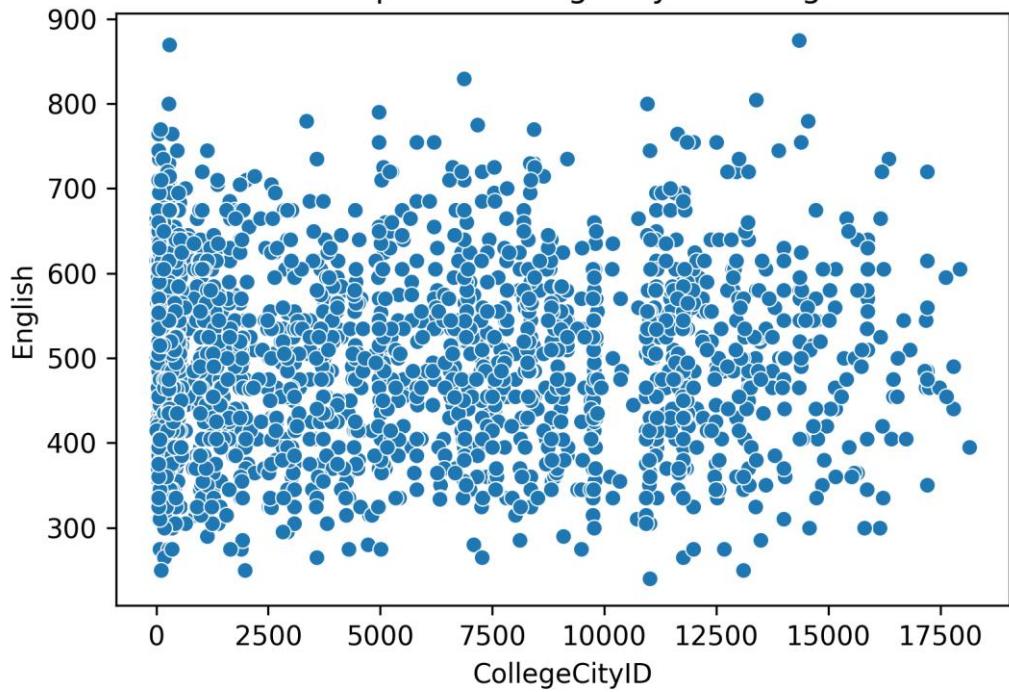
Scatter plot of CollegeCityID vs ElectricalEngg



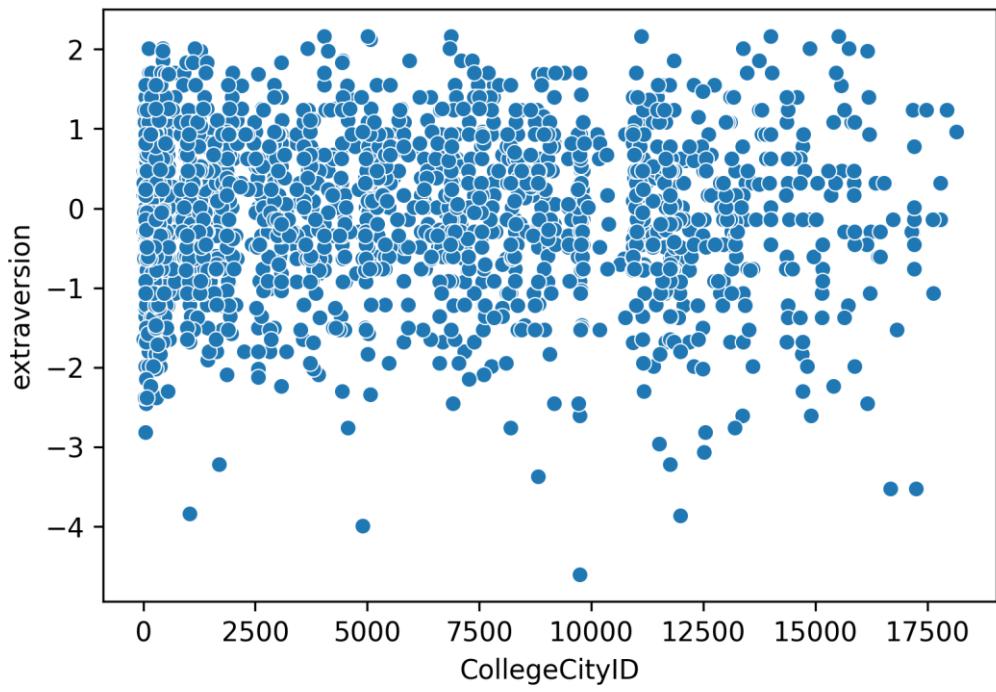
Scatter plot of CollegeCityID vs ElectronicsAndSemicon



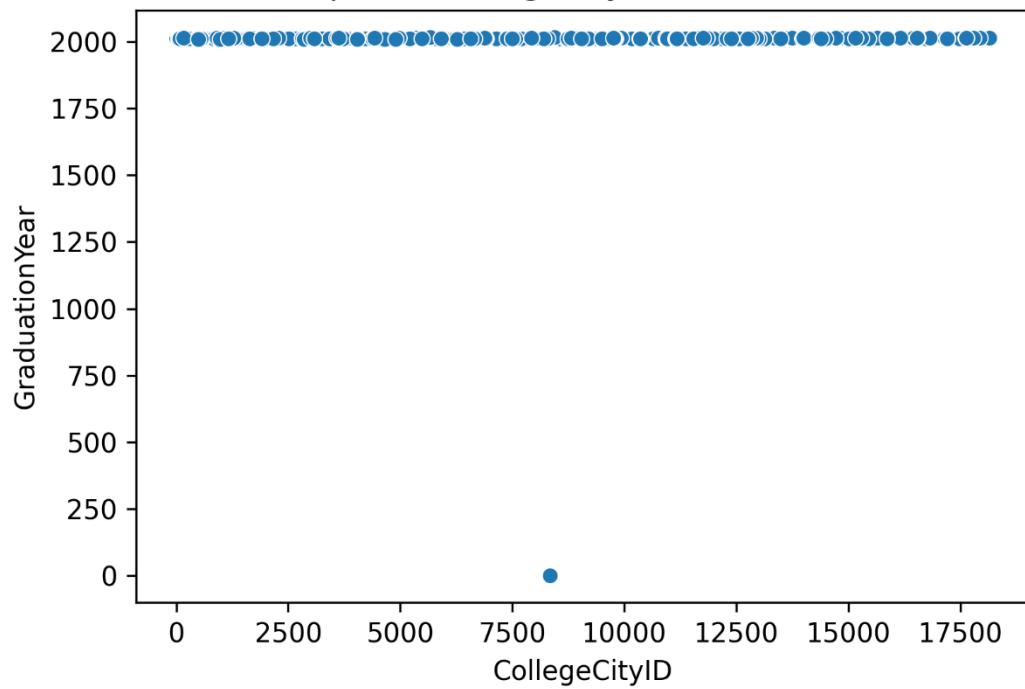
Scatter plot of CollegeCityID vs English



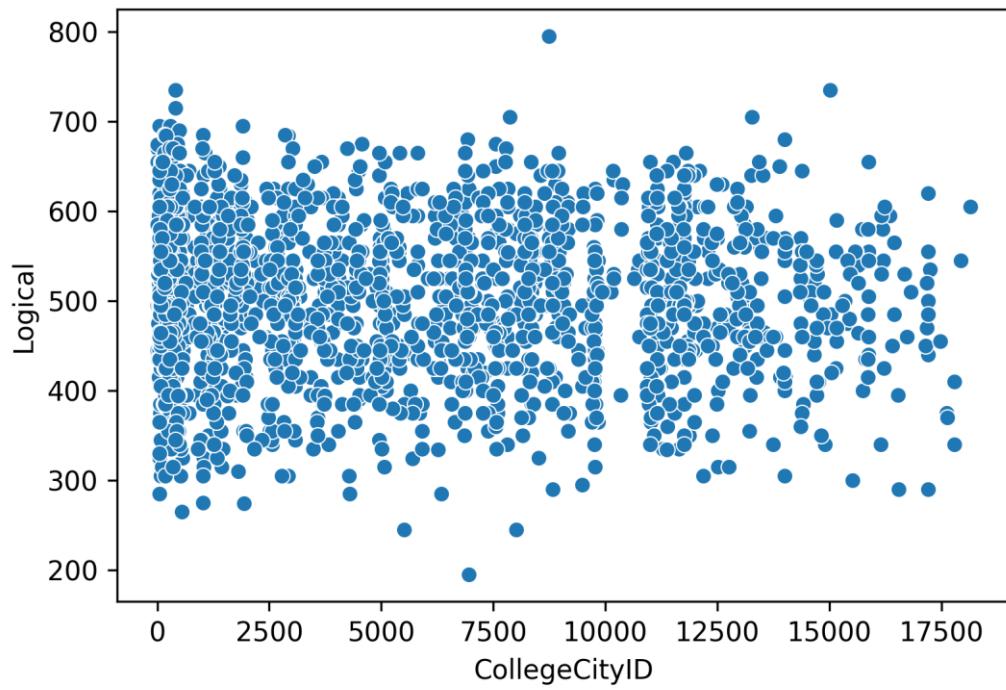
Scatter plot of CollegeCityID vs extraversion



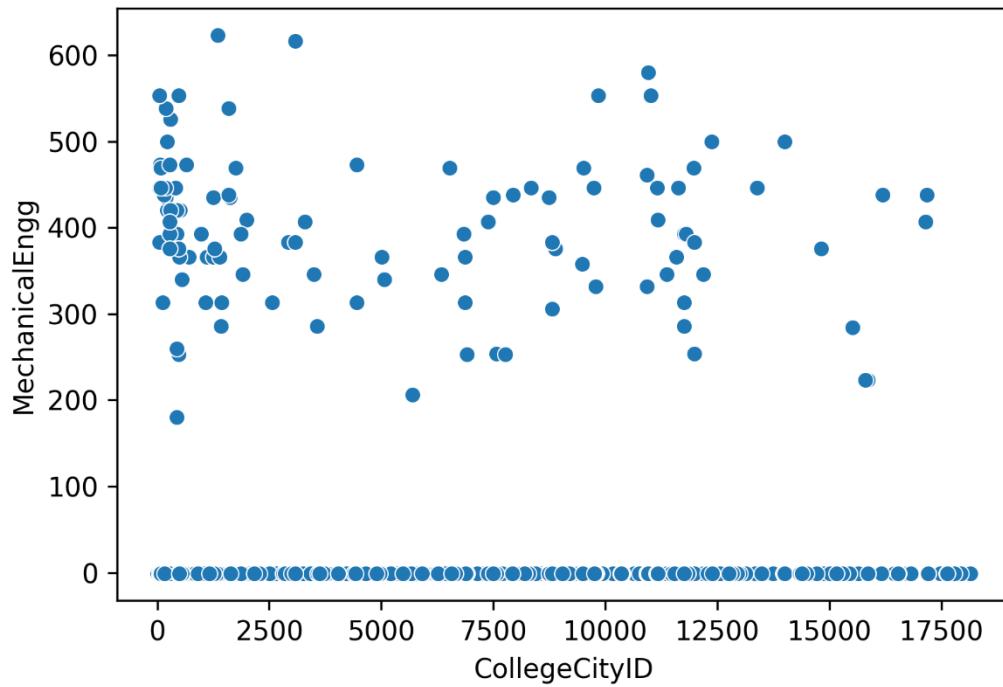
Scatter plot of CollegeCityID vs GraduationYear



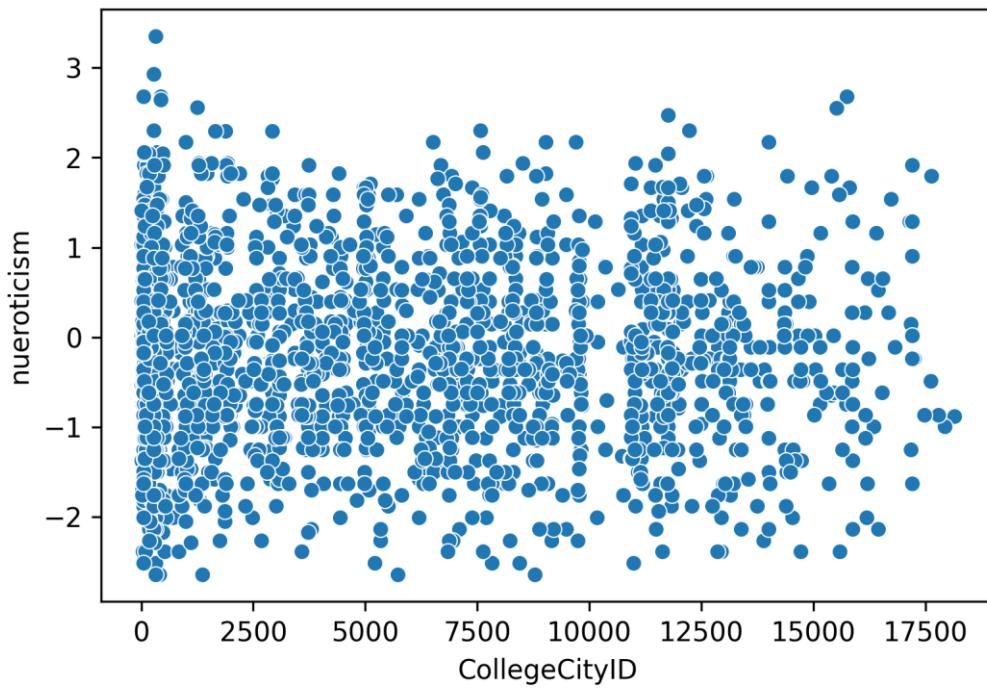
Scatter plot of CollegeCityID vs Logical



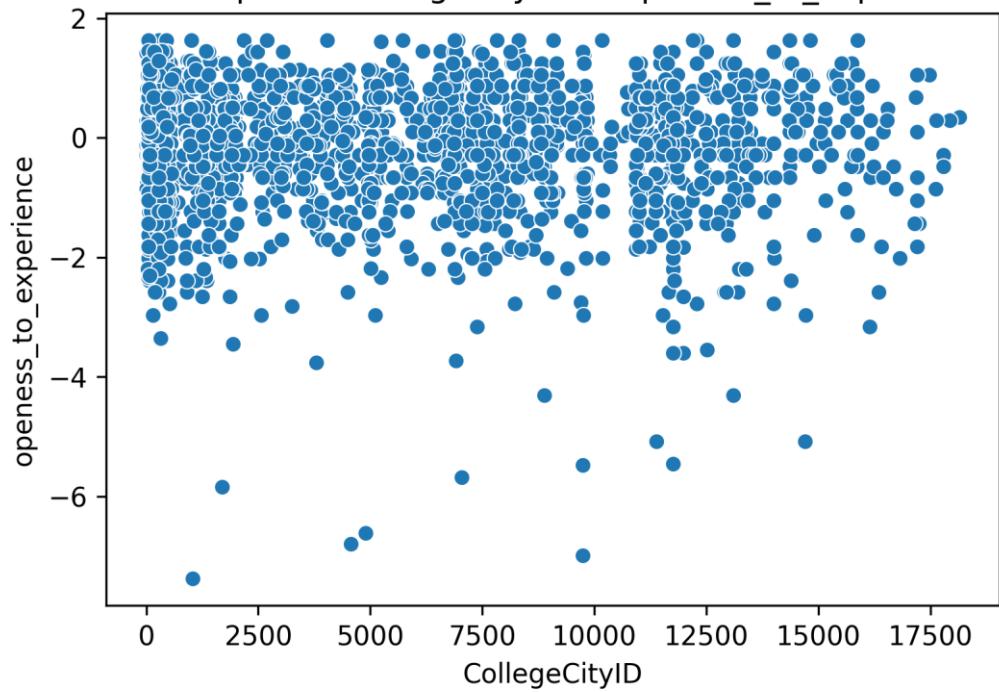
Scatter plot of CollegeCityID vs MechanicalEngg



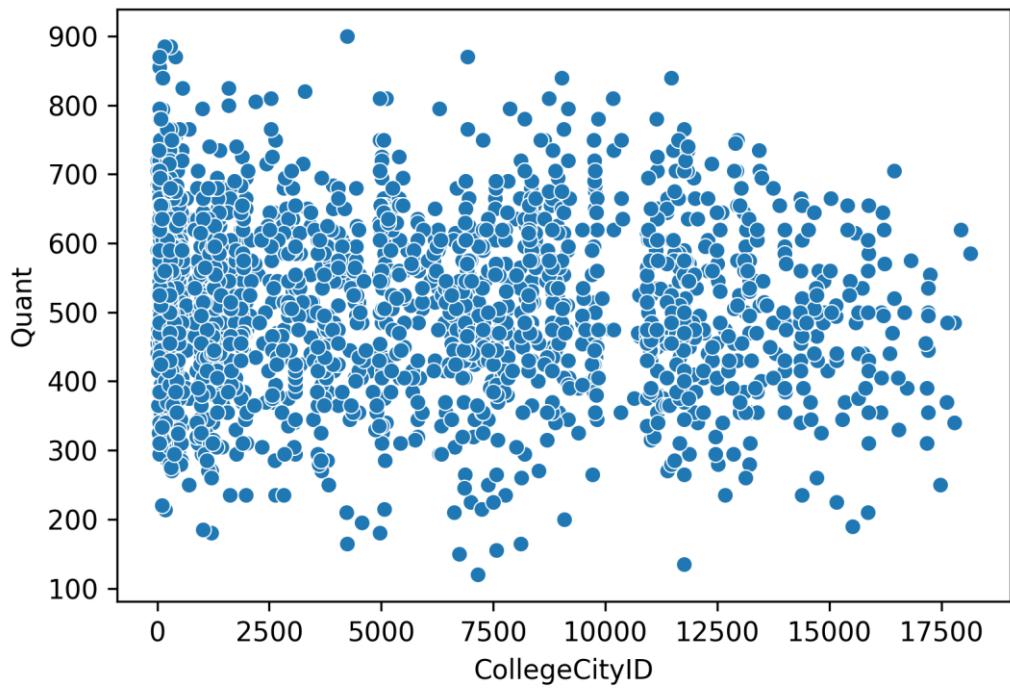
Scatter plot of CollegeCityID vs nueroticism



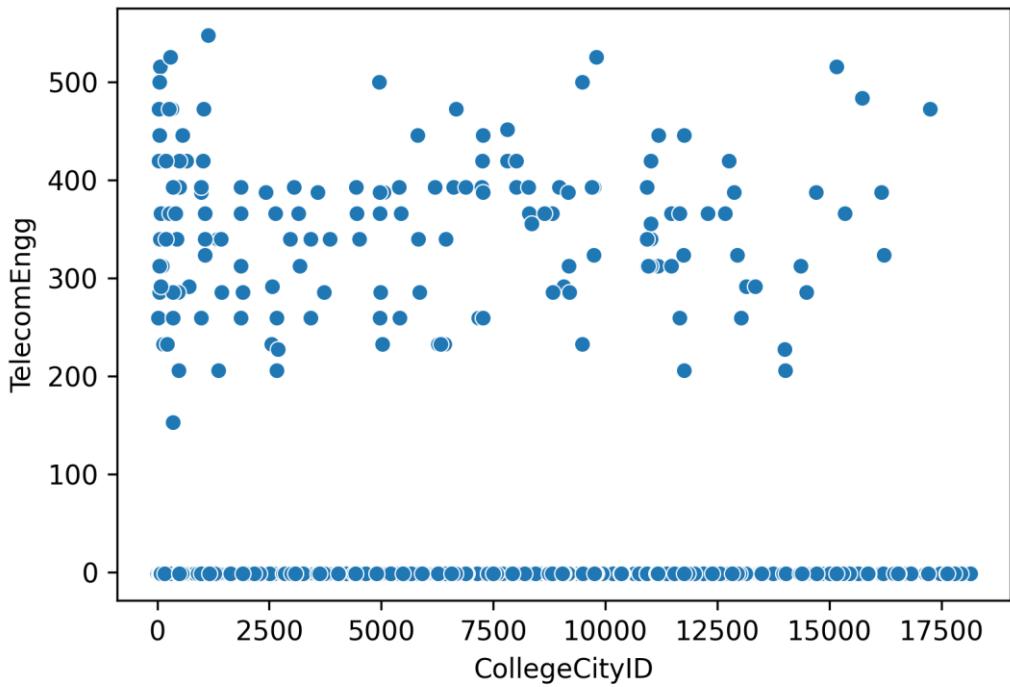
Scatter plot of CollegeCityID vs openness_to_experience



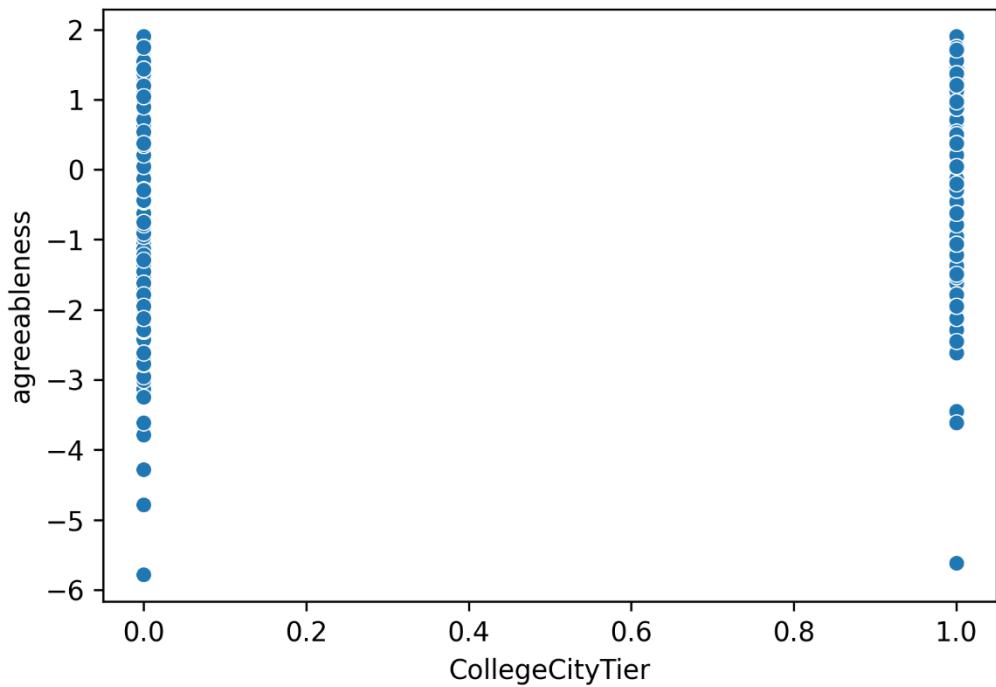
Scatter plot of CollegeCityID vs Quant



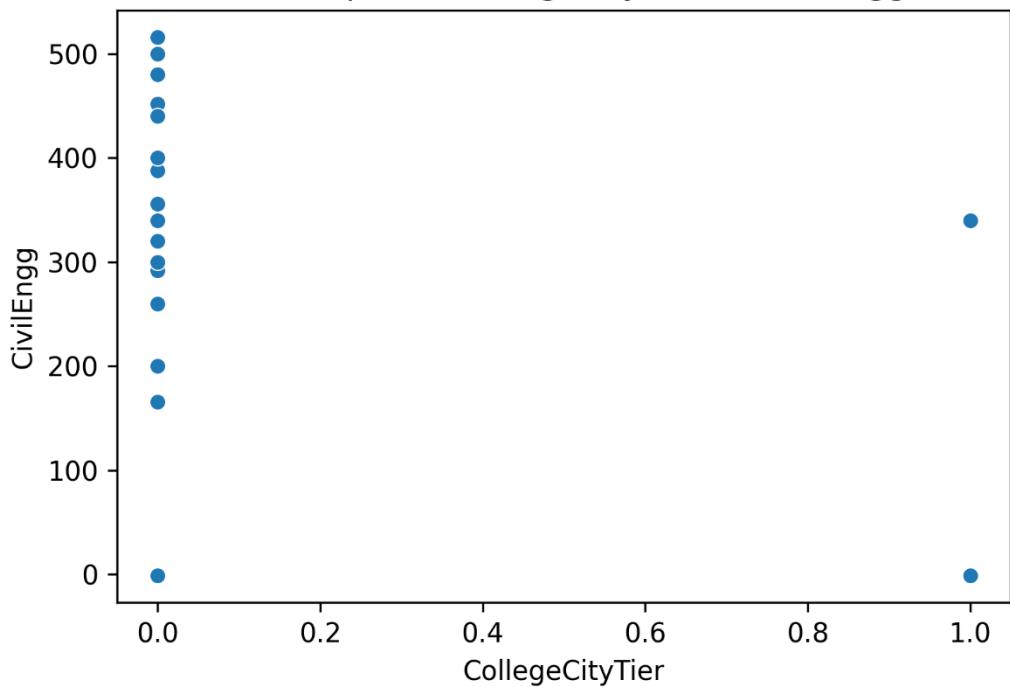
Scatter plot of CollegeCityID vs TelecomEngg



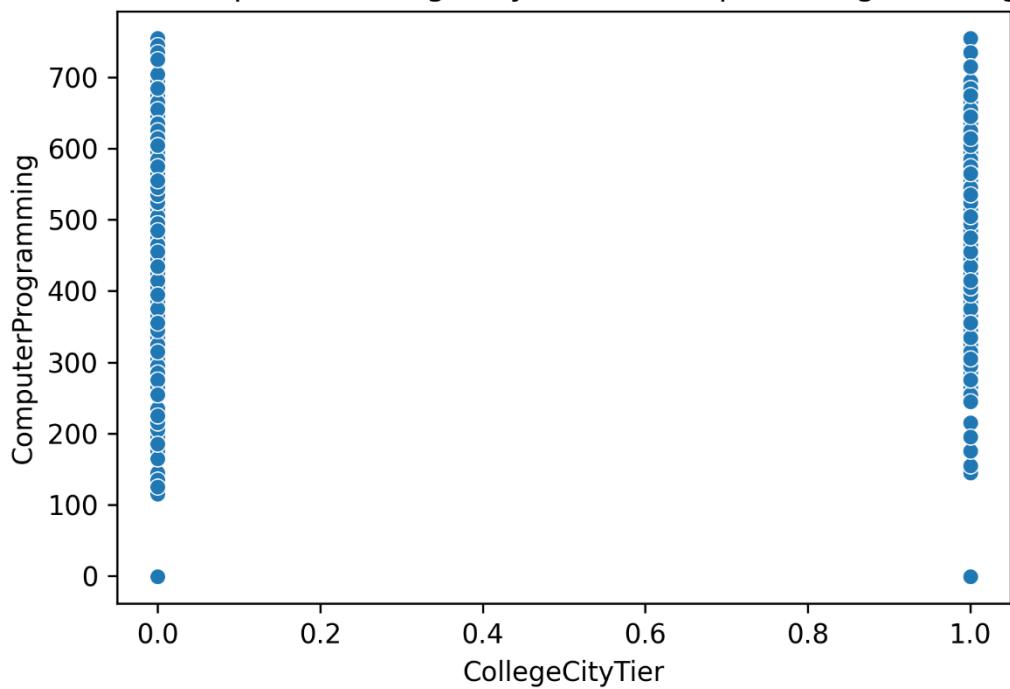
Scatter plot of CollegeCityTier vs agreeableness



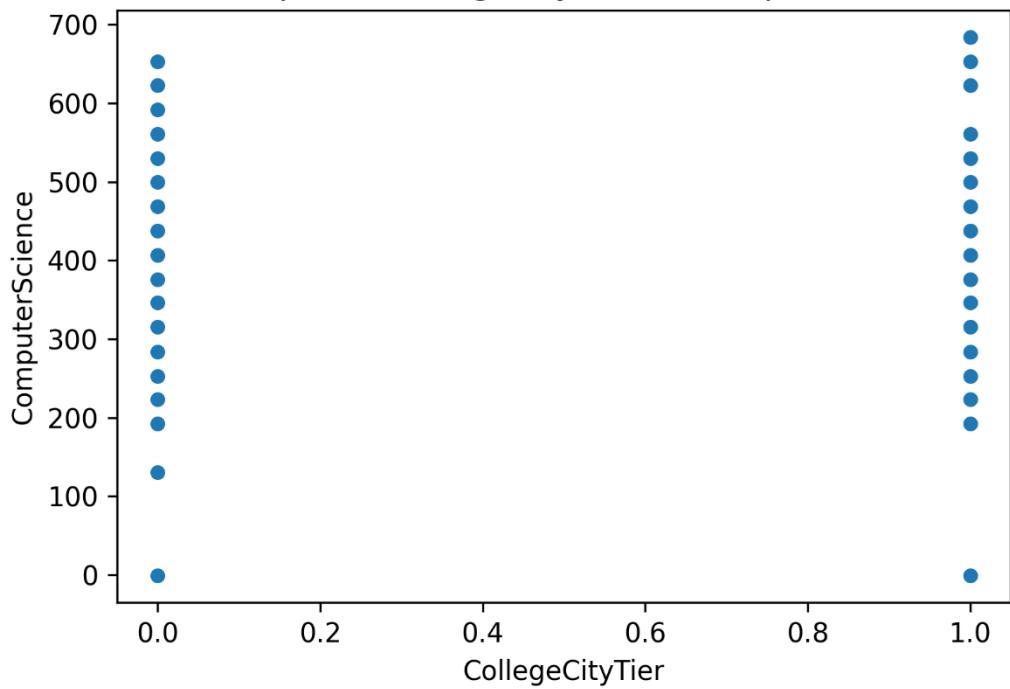
Scatter plot of CollegeCityTier vs CivilEngg



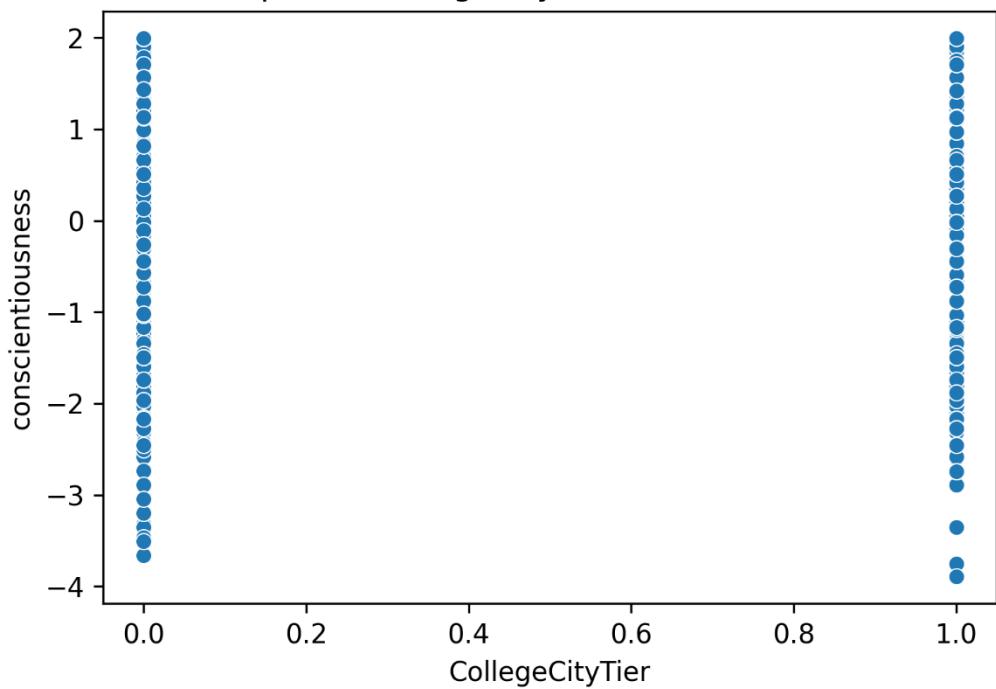
Scatter plot of CollegeCityTier vs ComputerProgramming



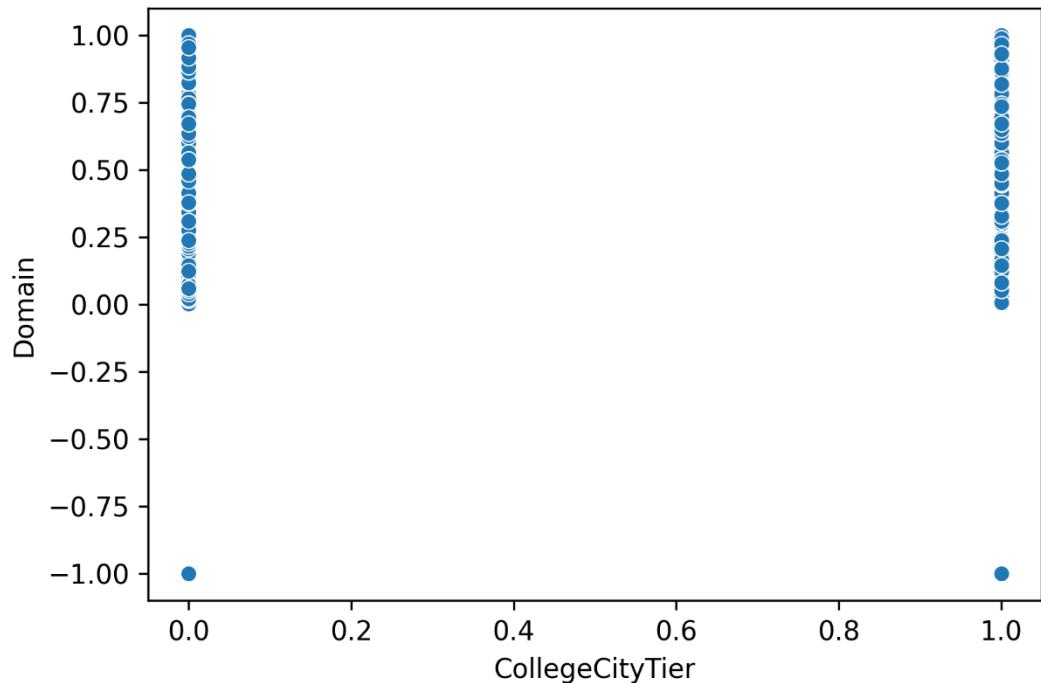
Scatter plot of CollegeCityTier vs ComputerScience



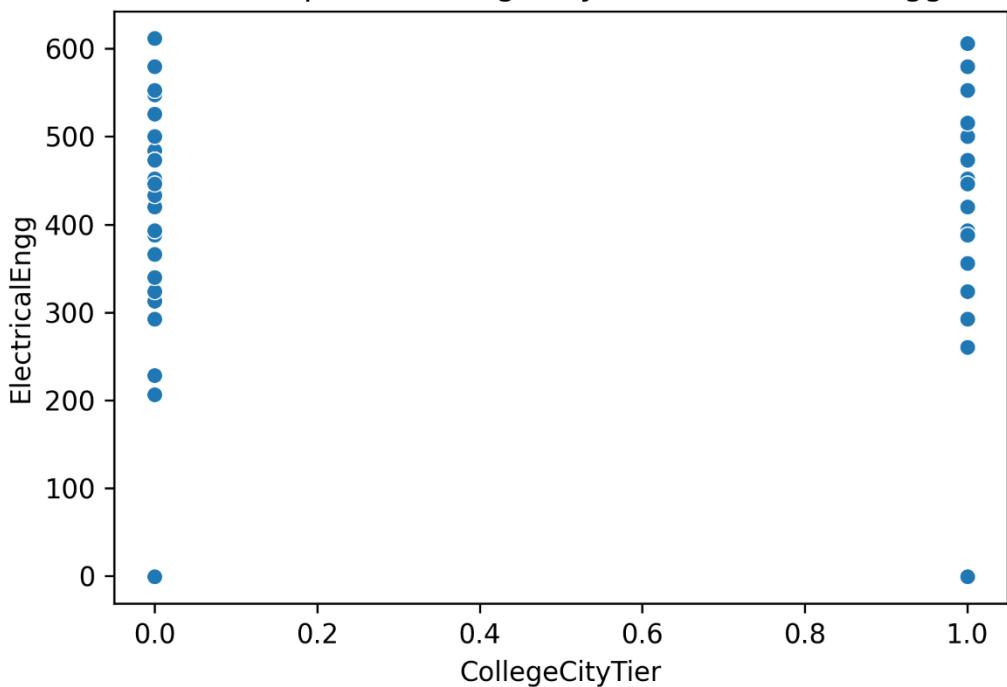
Scatter plot of CollegeCityTier vs conscientiousness



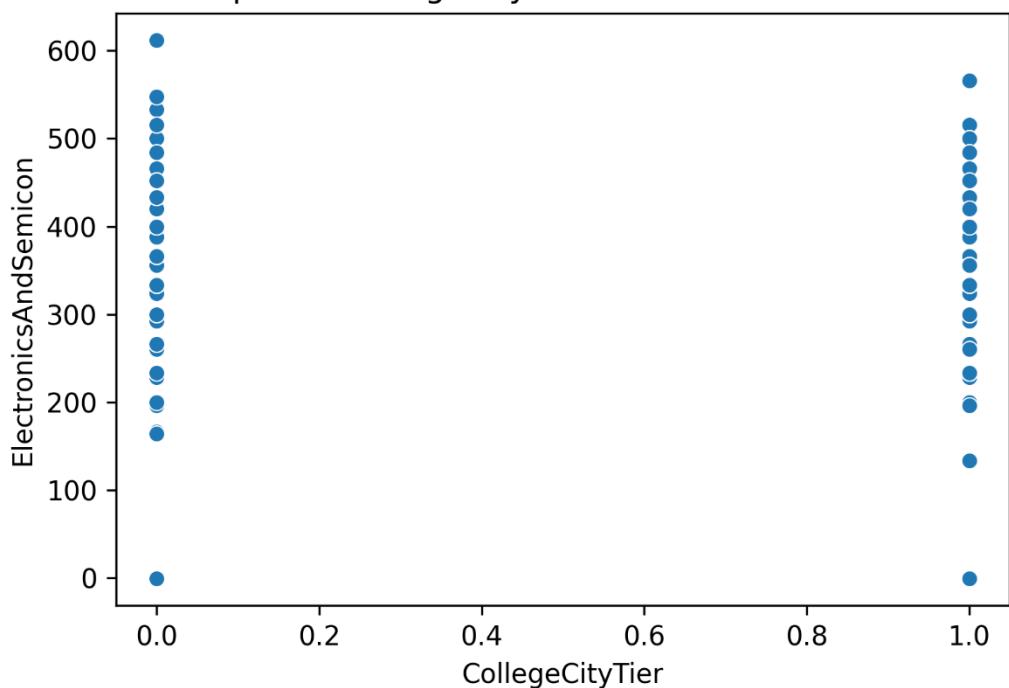
Scatter plot of CollegeCityTier vs Domain



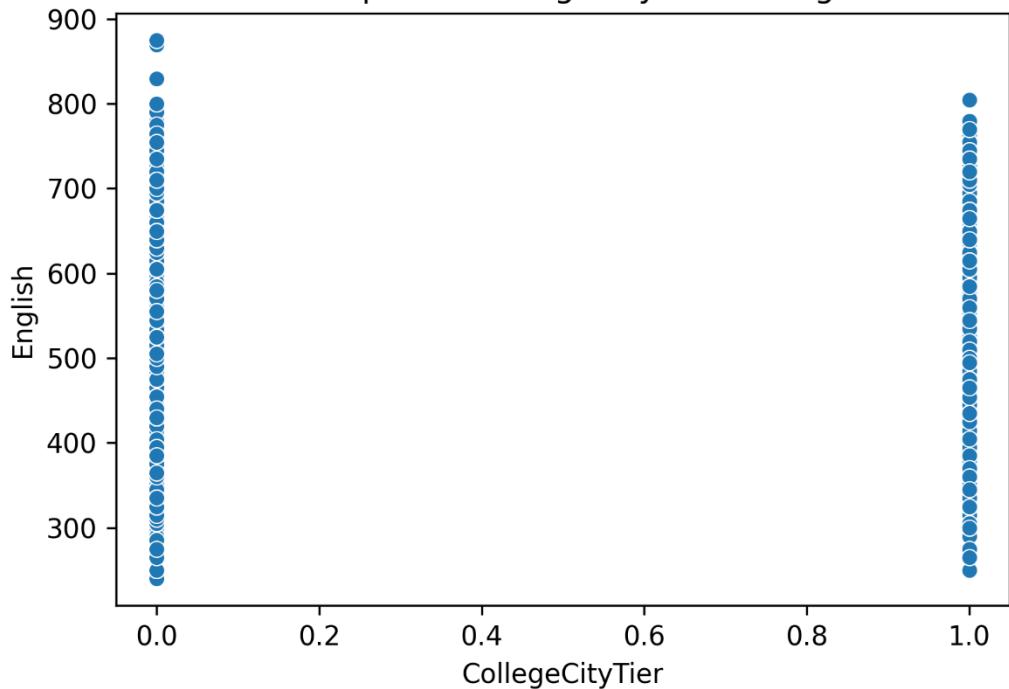
Scatter plot of CollegeCityTier vs ElectricalEngg



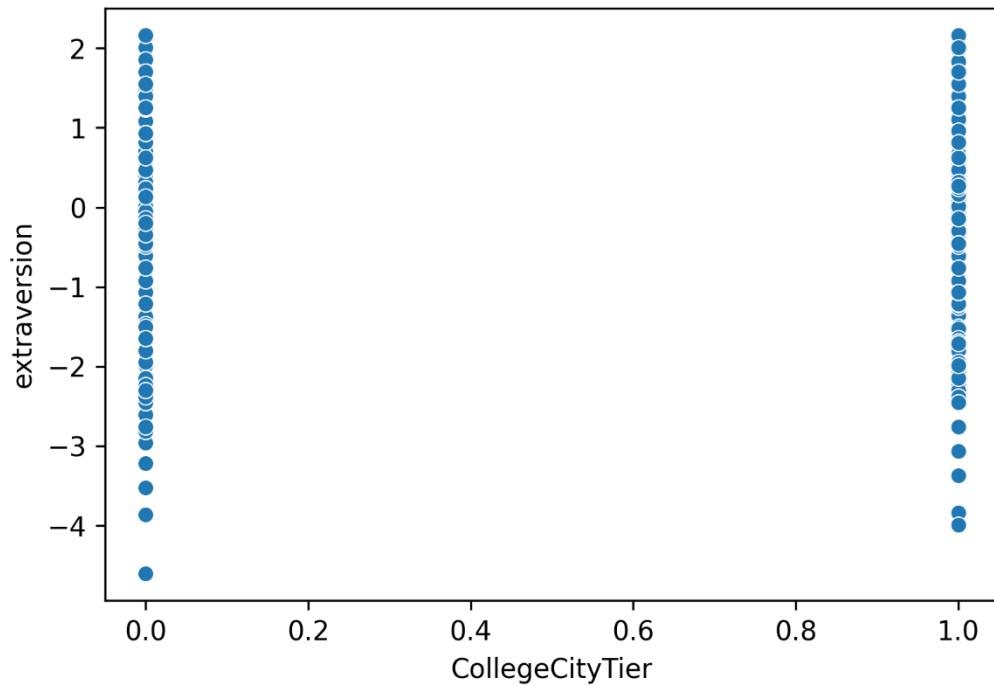
Scatter plot of CollegeCityTier vs ElectronicsAndSemicon



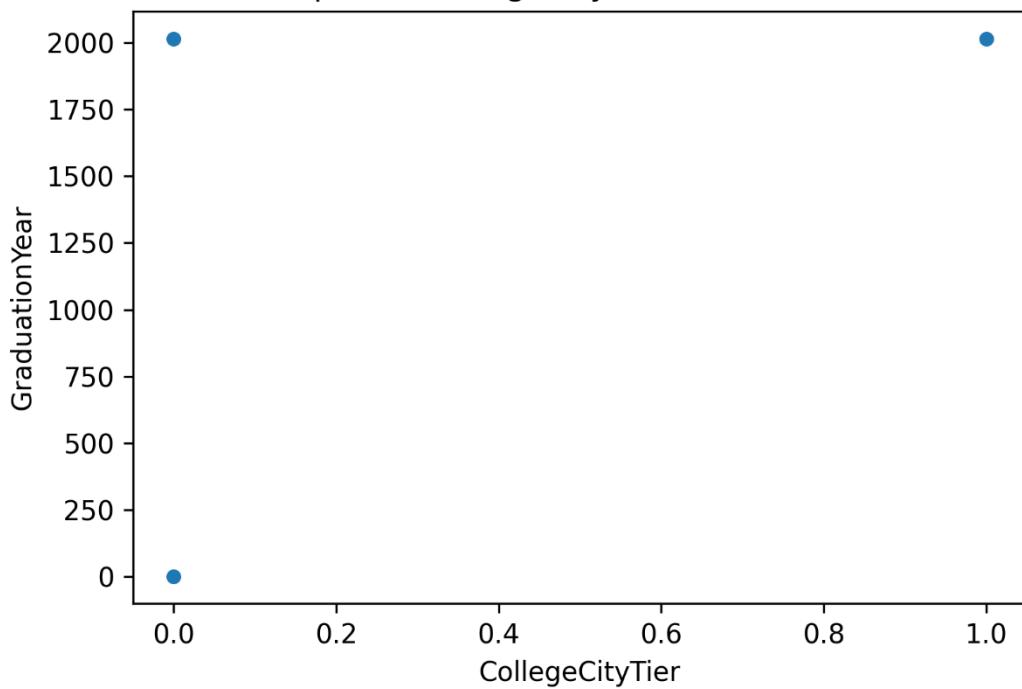
Scatter plot of CollegeCityTier vs English



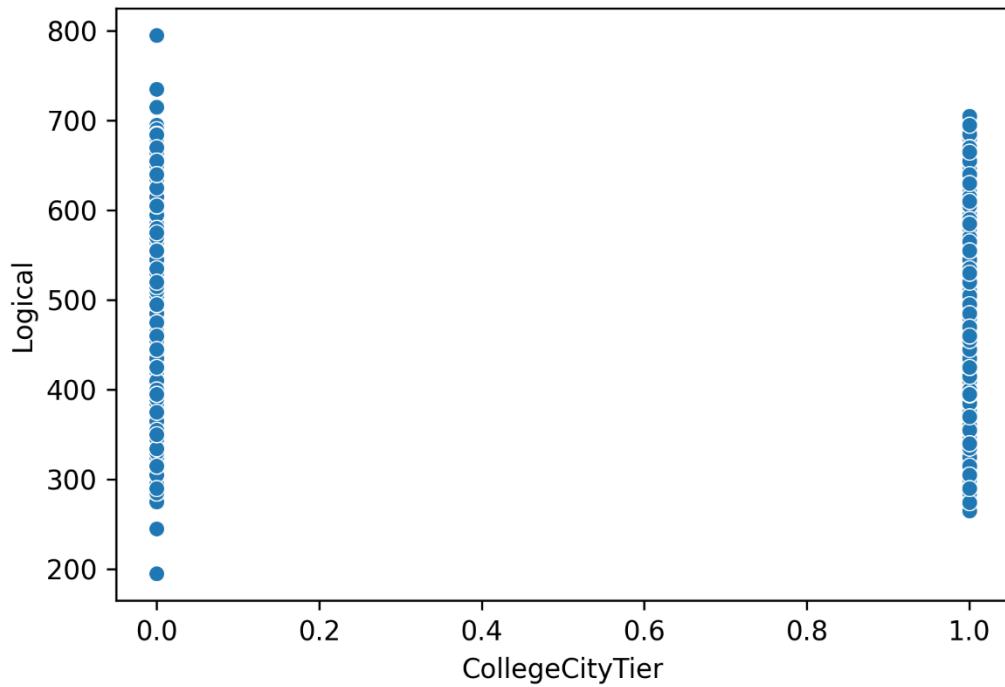
Scatter plot of CollegeCityTier vs extraversion



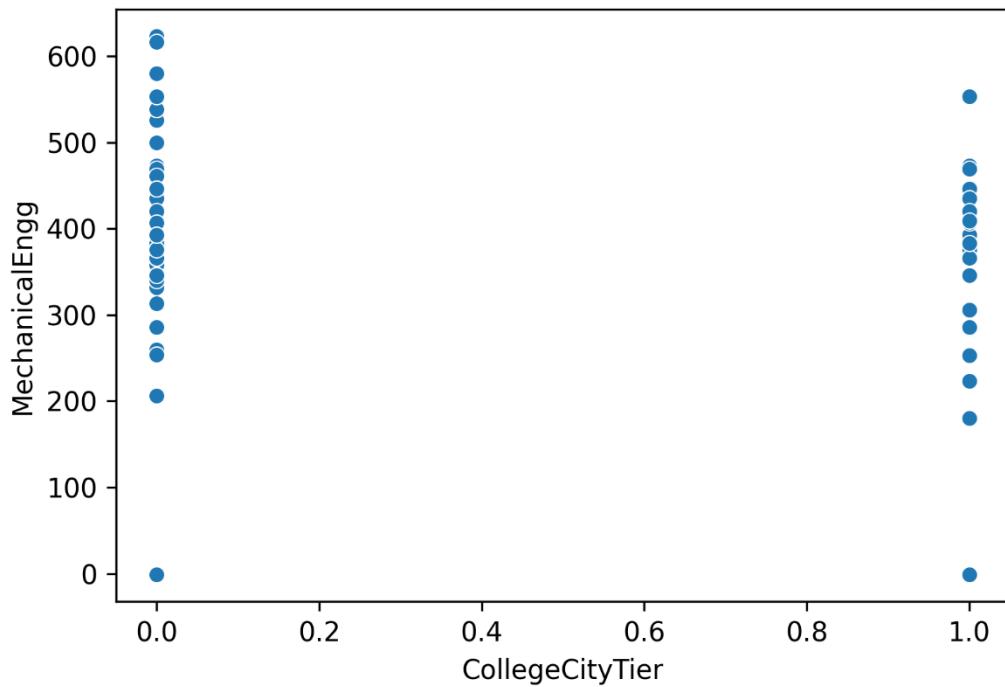
Scatter plot of CollegeCityTier vs GraduationYear



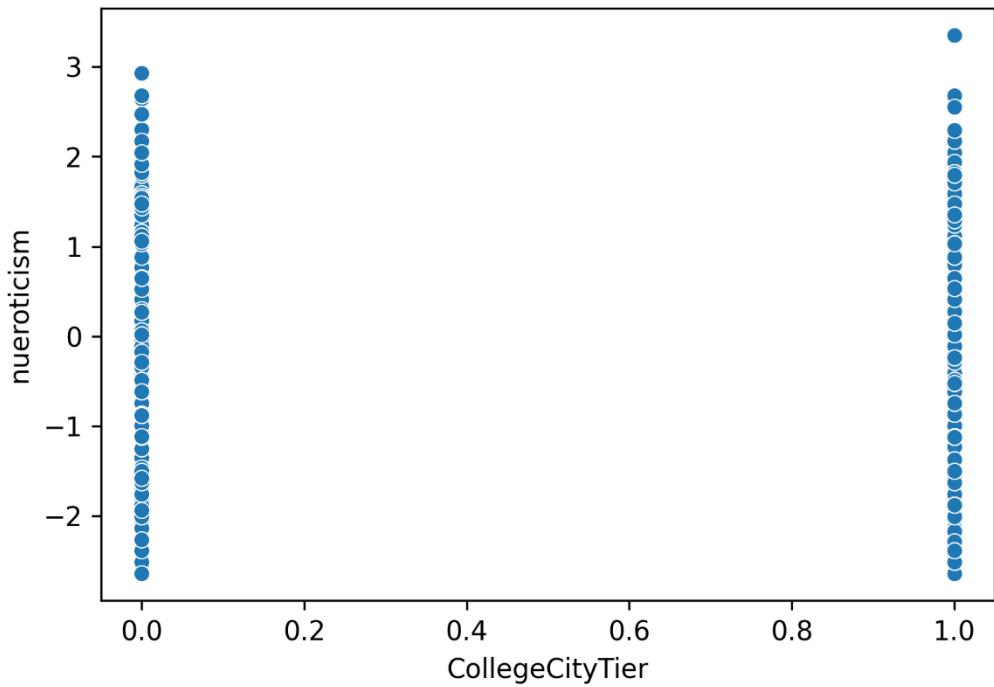
Scatter plot of CollegeCityTier vs Logical



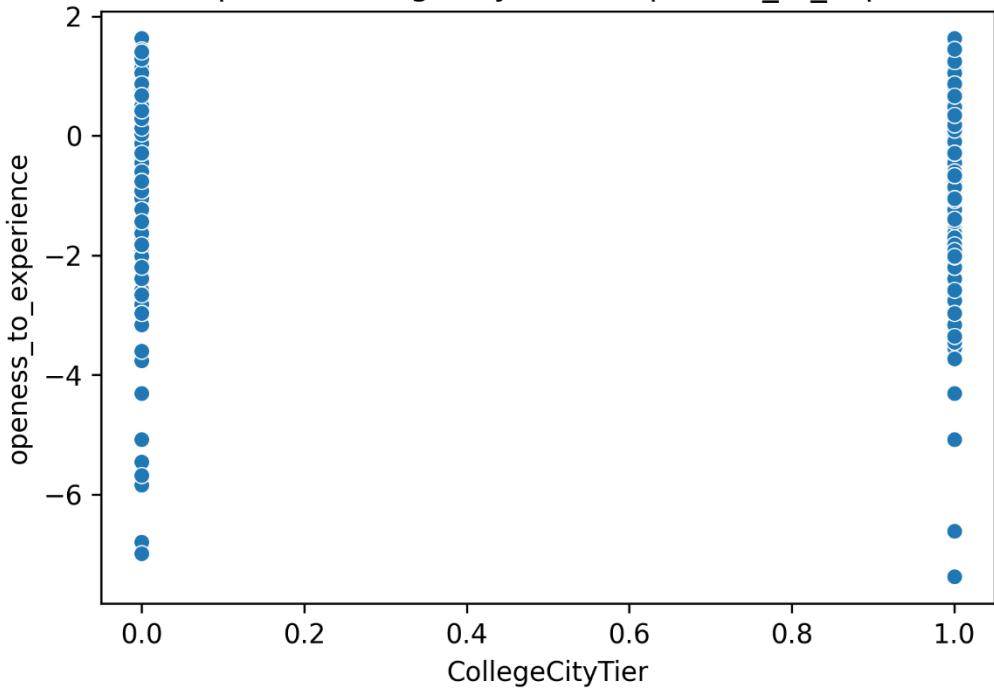
Scatter plot of CollegeCityTier vs MechanicalEngg



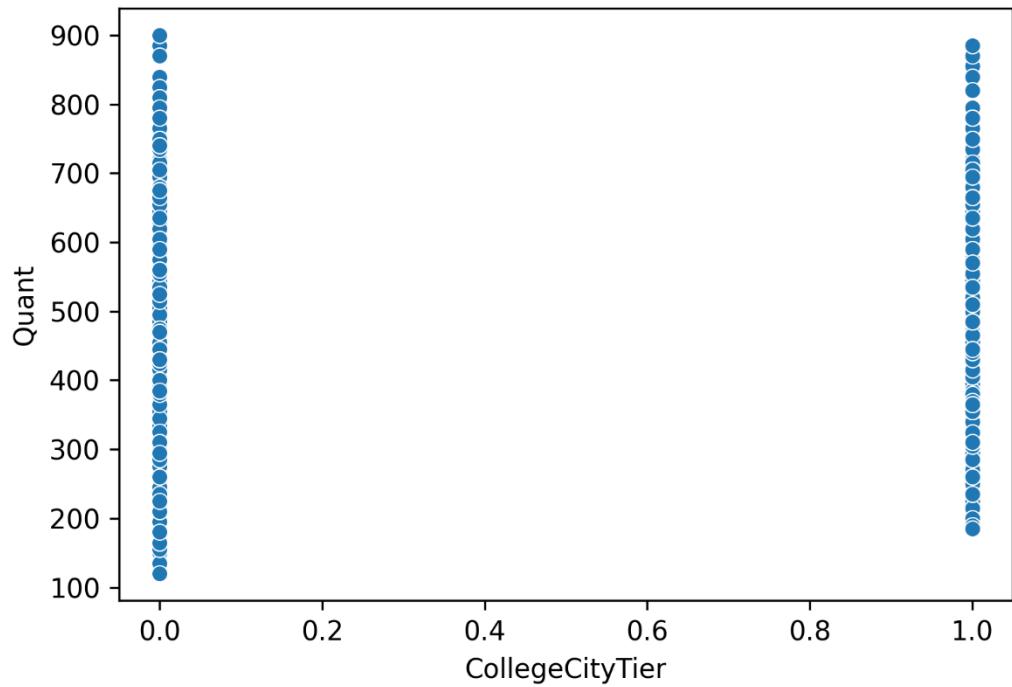
Scatter plot of CollegeCityTier vs nueroticism



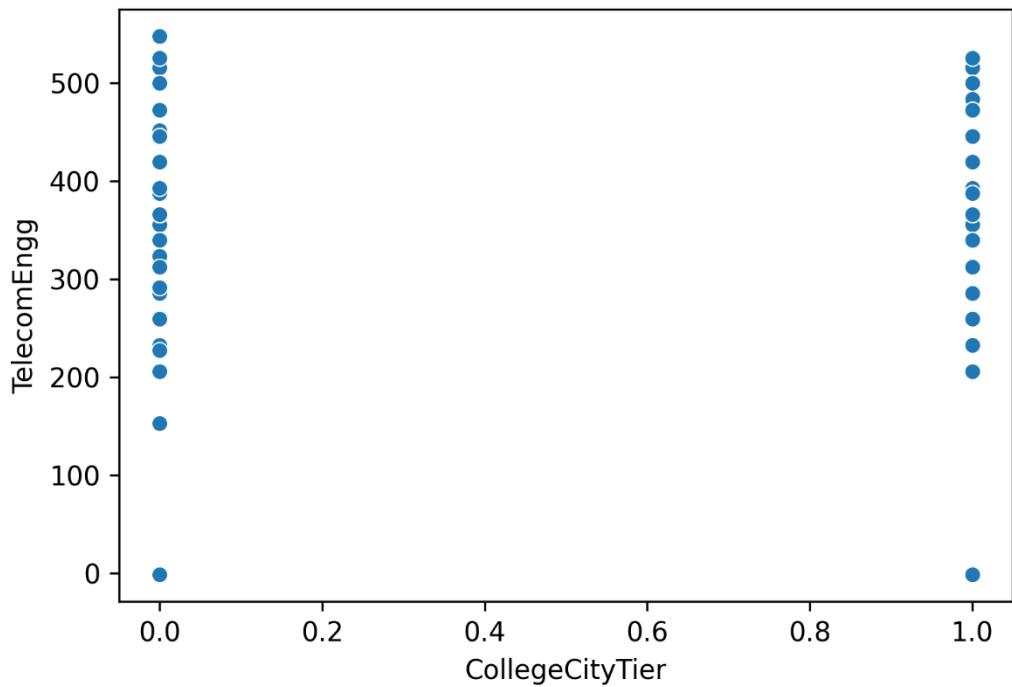
Scatter plot of CollegeCityTier vs openness_to_experience



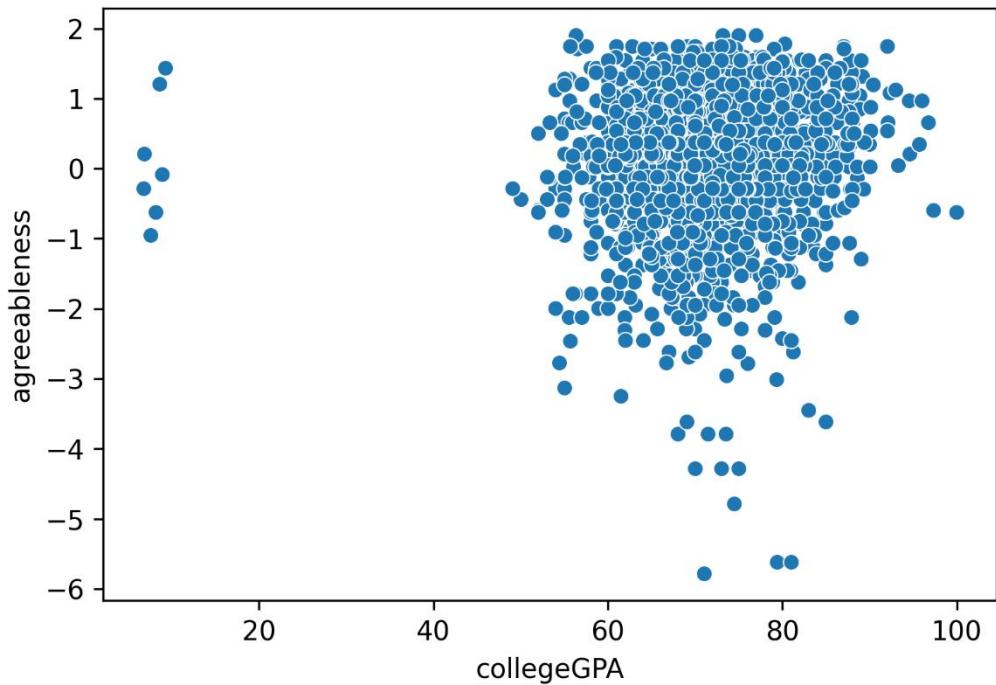
Scatter plot of CollegeCityTier vs Quant



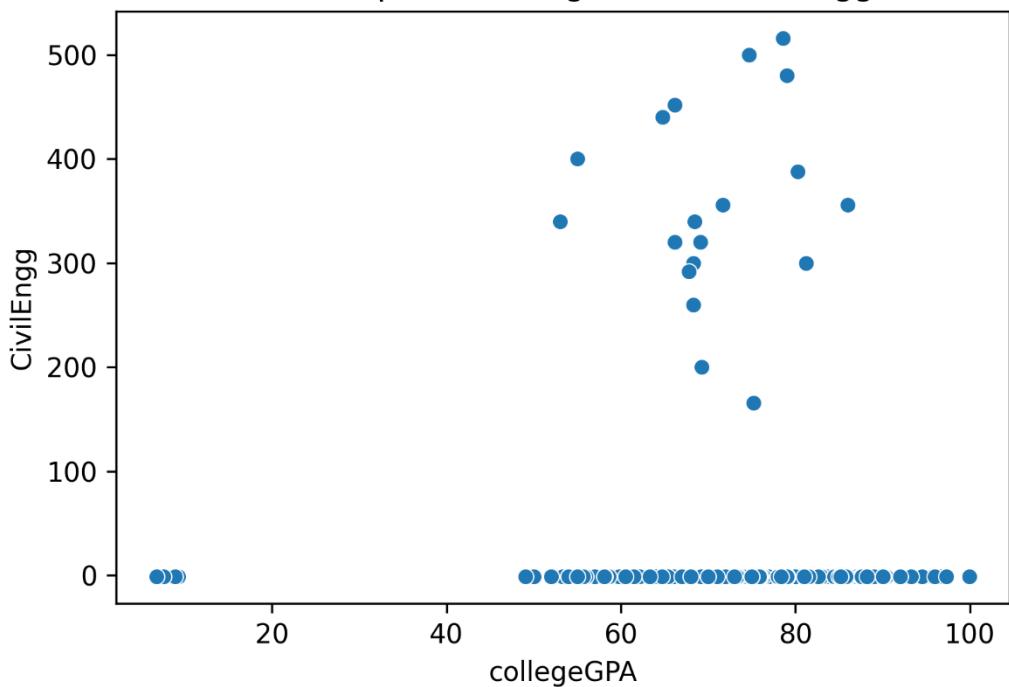
Scatter plot of CollegeCityTier vs TelecomEngg



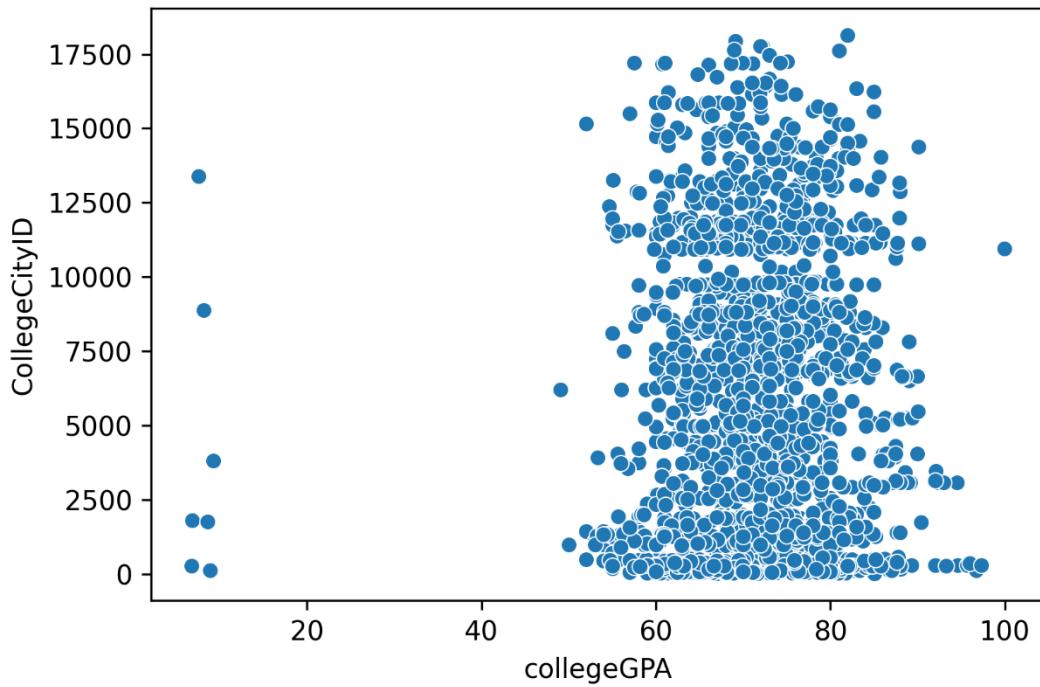
Scatter plot of collegeGPA vs agreeableness



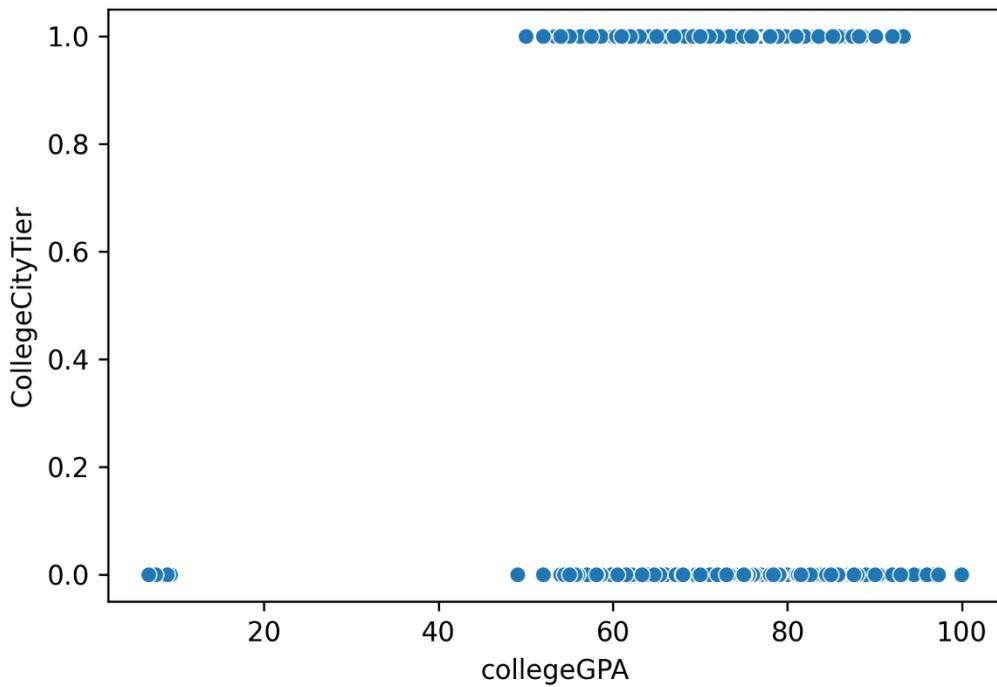
Scatter plot of collegeGPA vs CivilEngg



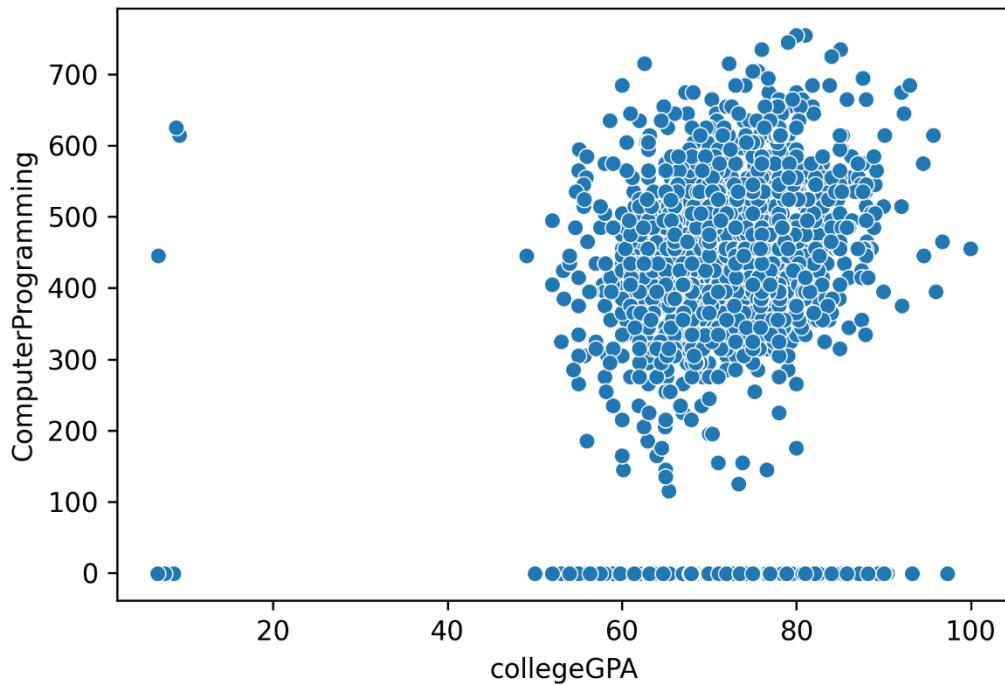
Scatter plot of collegeGPA vs CollegeCityID



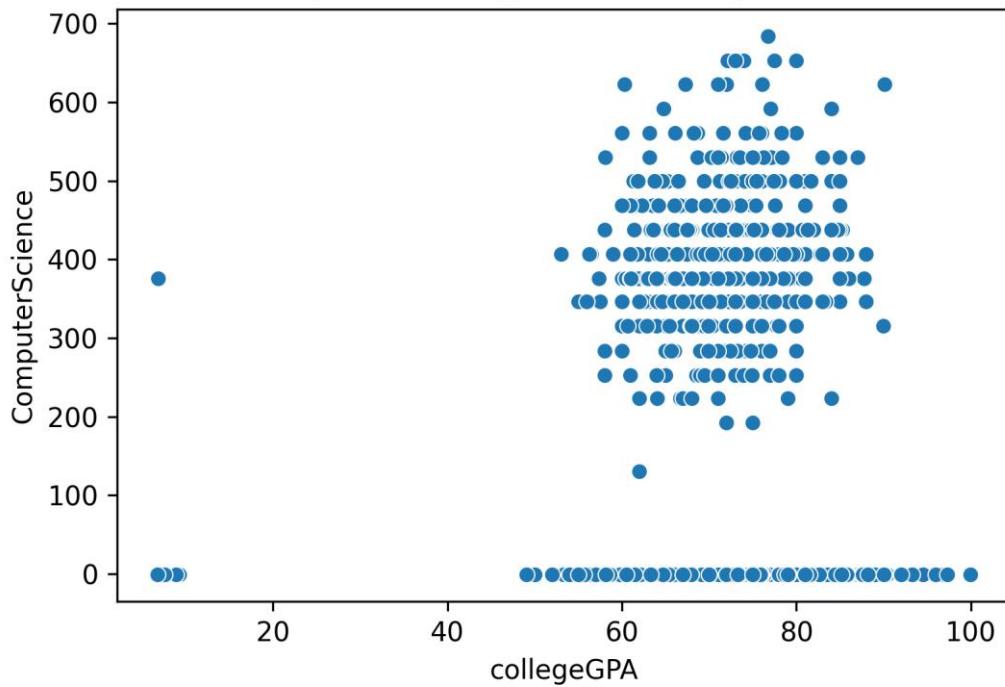
Scatter plot of collegeGPA vs CollegeCityTier



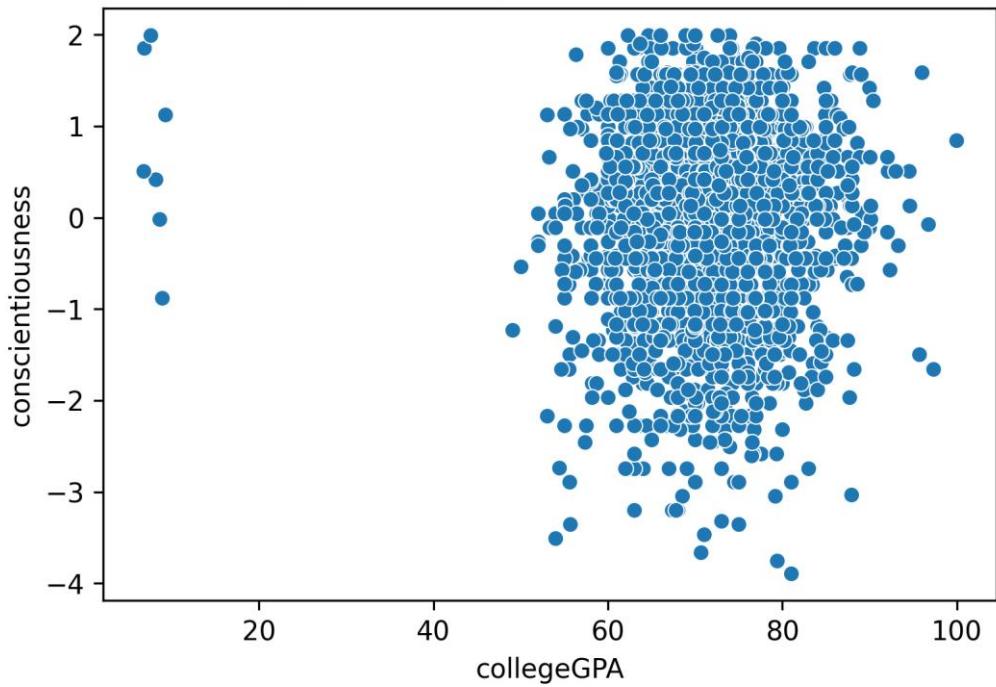
Scatter plot of collegeGPA vs ComputerProgramming



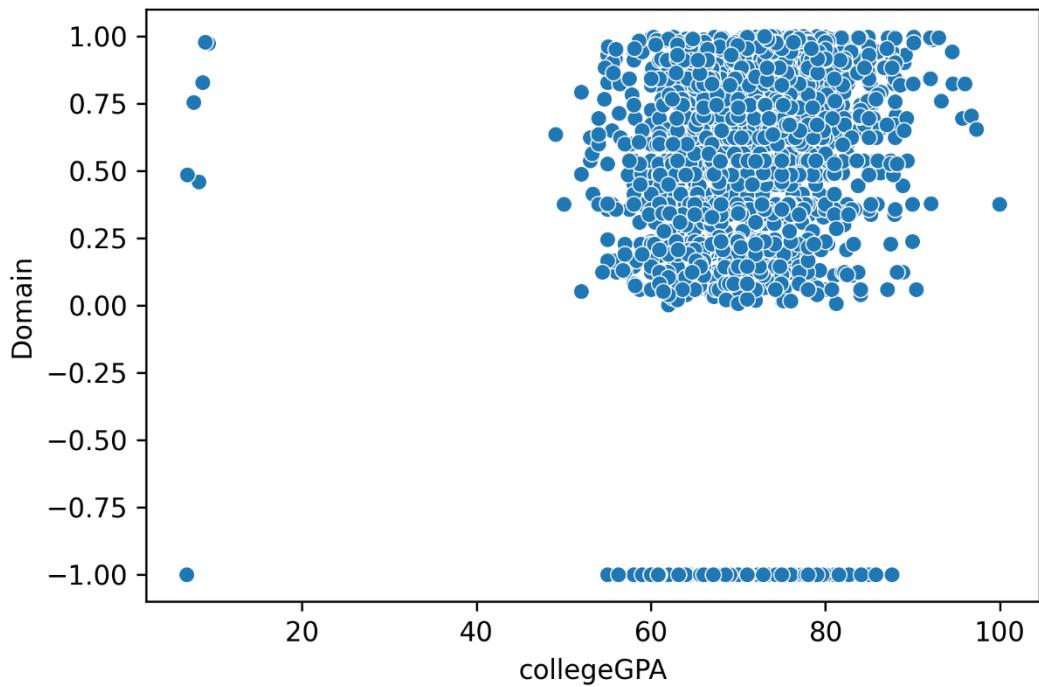
Scatter plot of collegeGPA vs ComputerScience



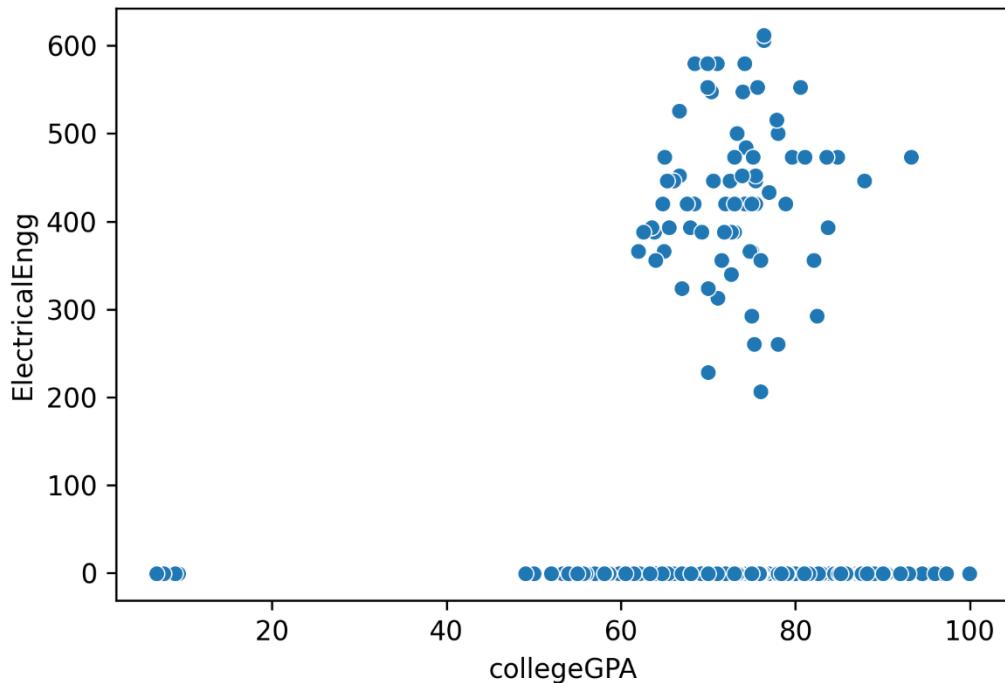
Scatter plot of collegeGPA vs conscientiousness



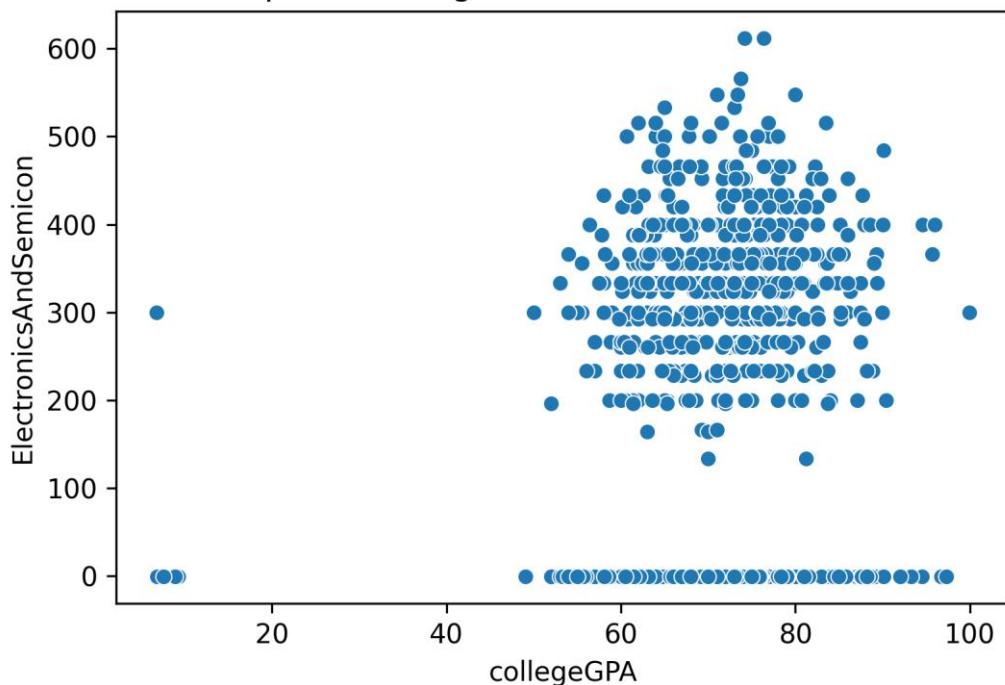
Scatter plot of collegeGPA vs Domain

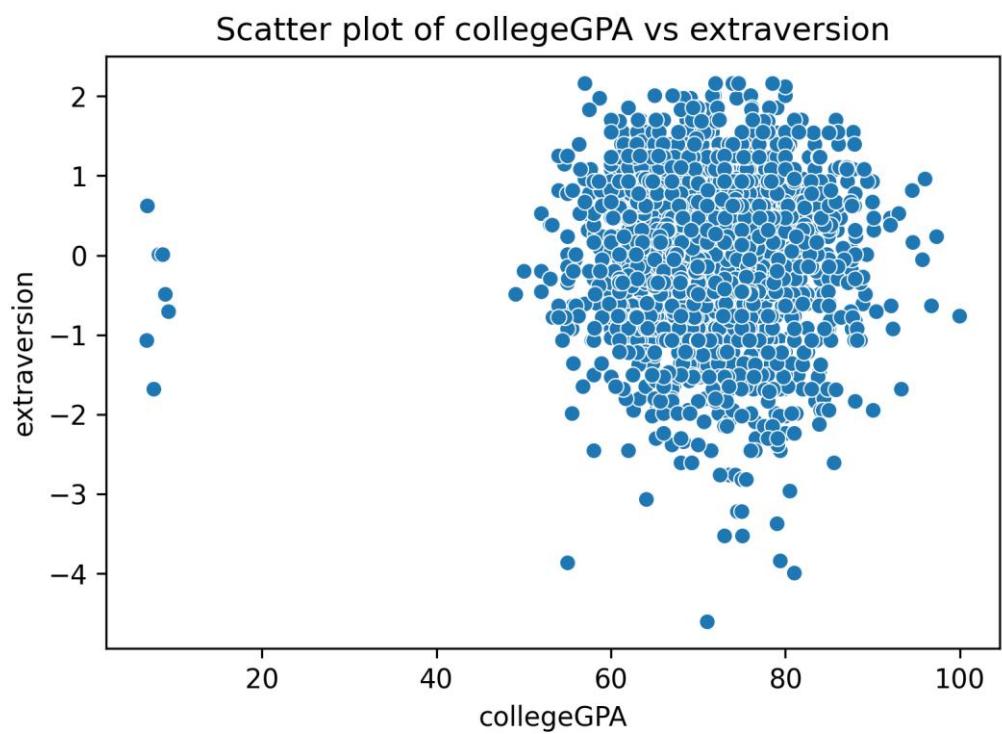
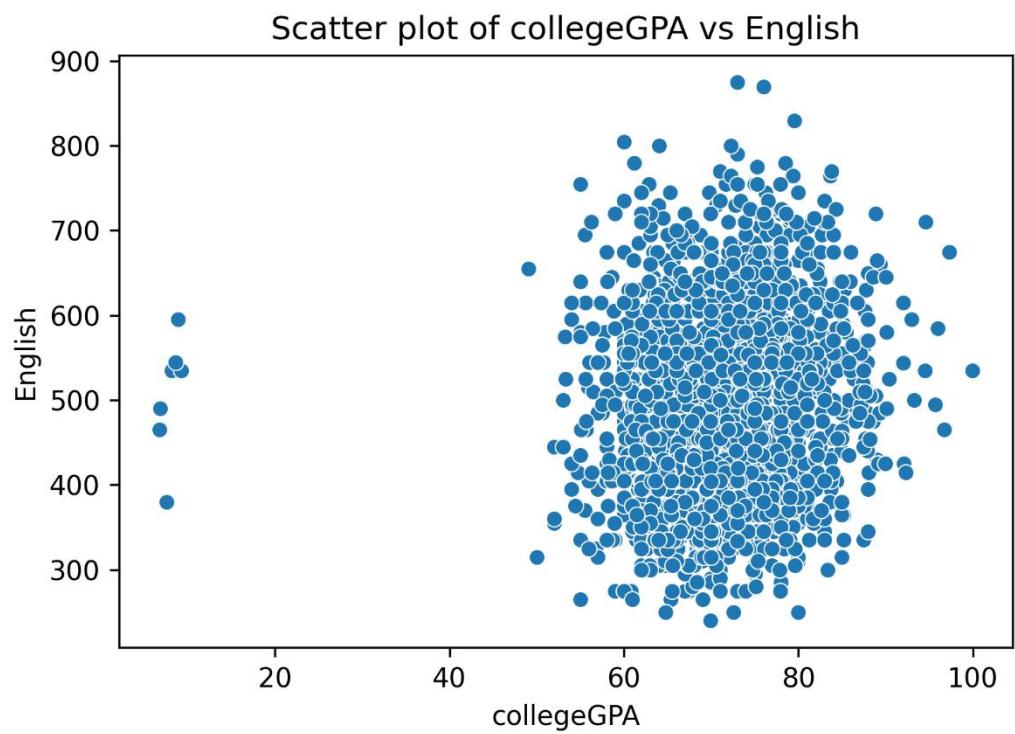


Scatter plot of collegeGPA vs ElectricalEngg

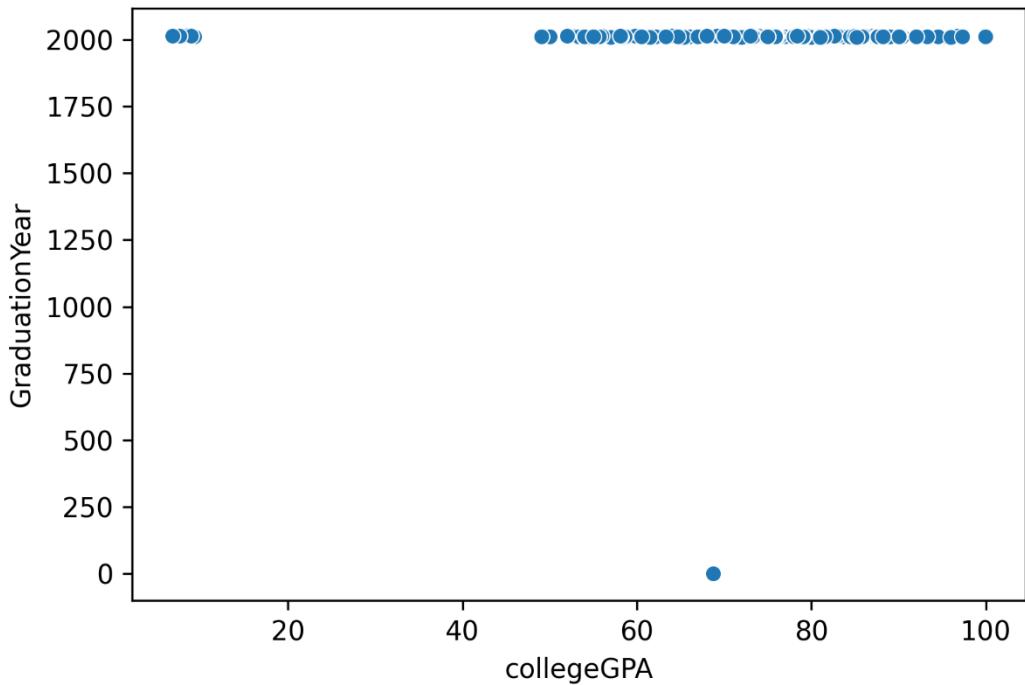


Scatter plot of collegeGPA vs ElectronicsAndSemicon

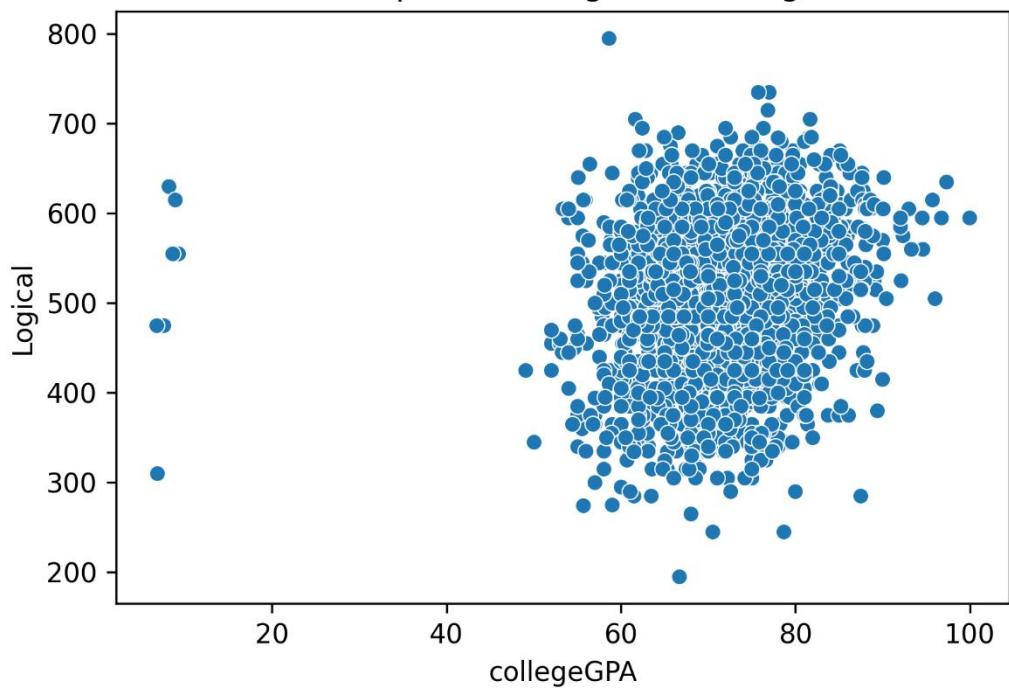




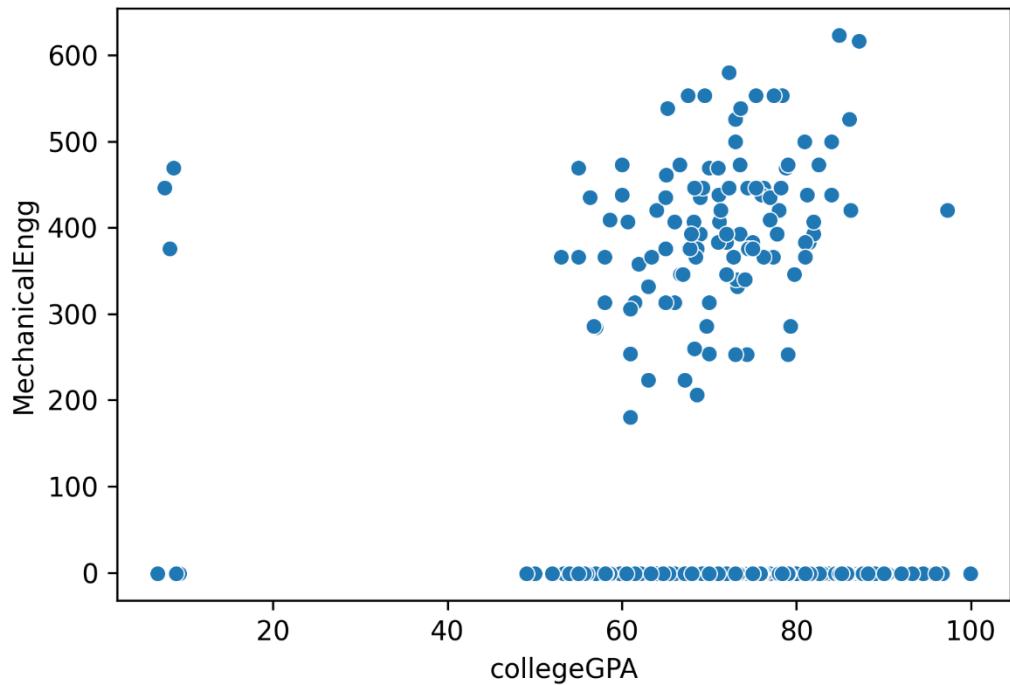
Scatter plot of collegeGPA vs GraduationYear



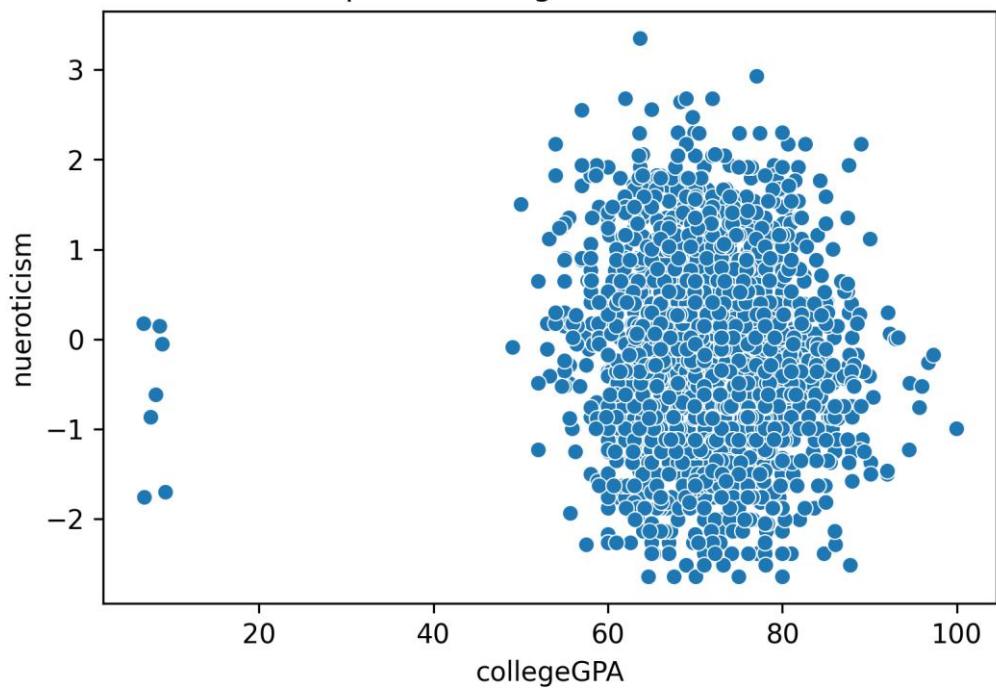
Scatter plot of collegeGPA vs Logical



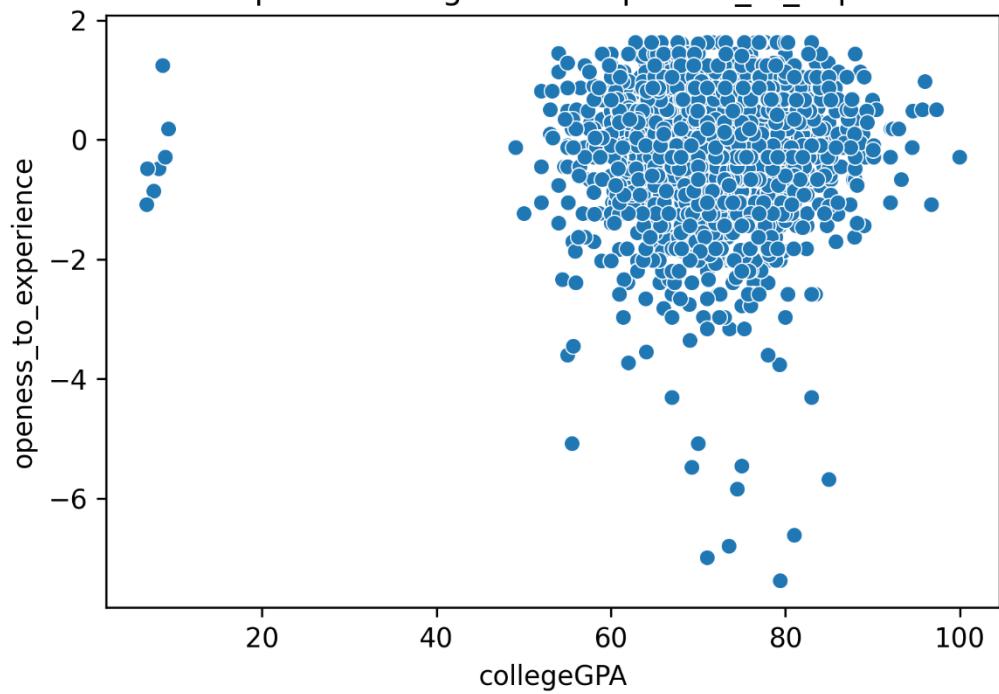
Scatter plot of collegeGPA vs MechanicalEngg



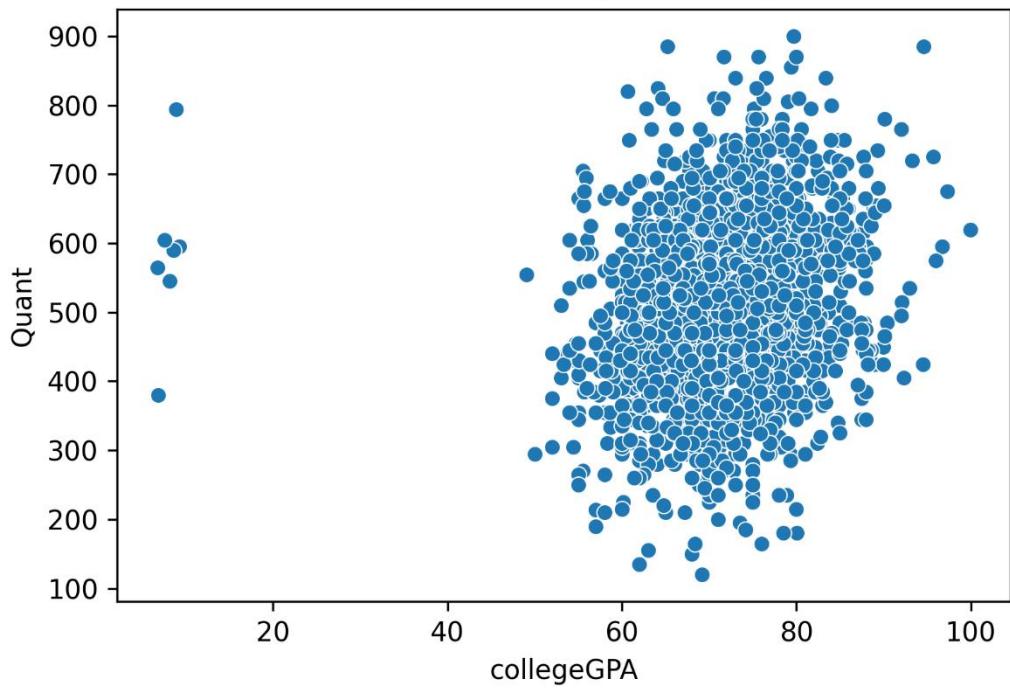
Scatter plot of collegeGPA vs nueroticism



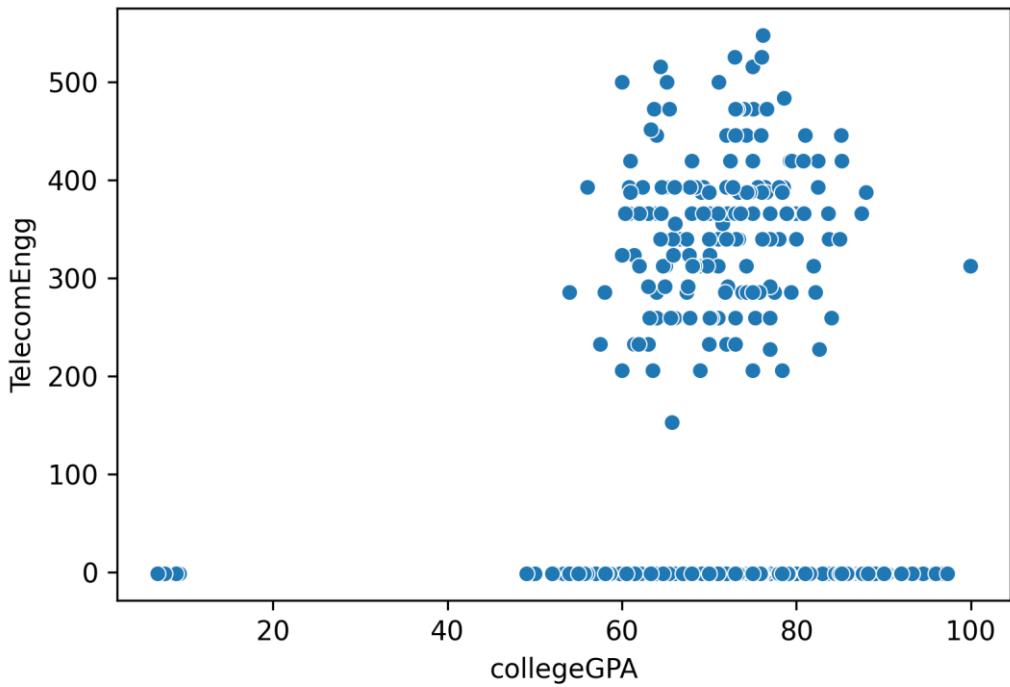
Scatter plot of collegeGPA vs openness_to_experience



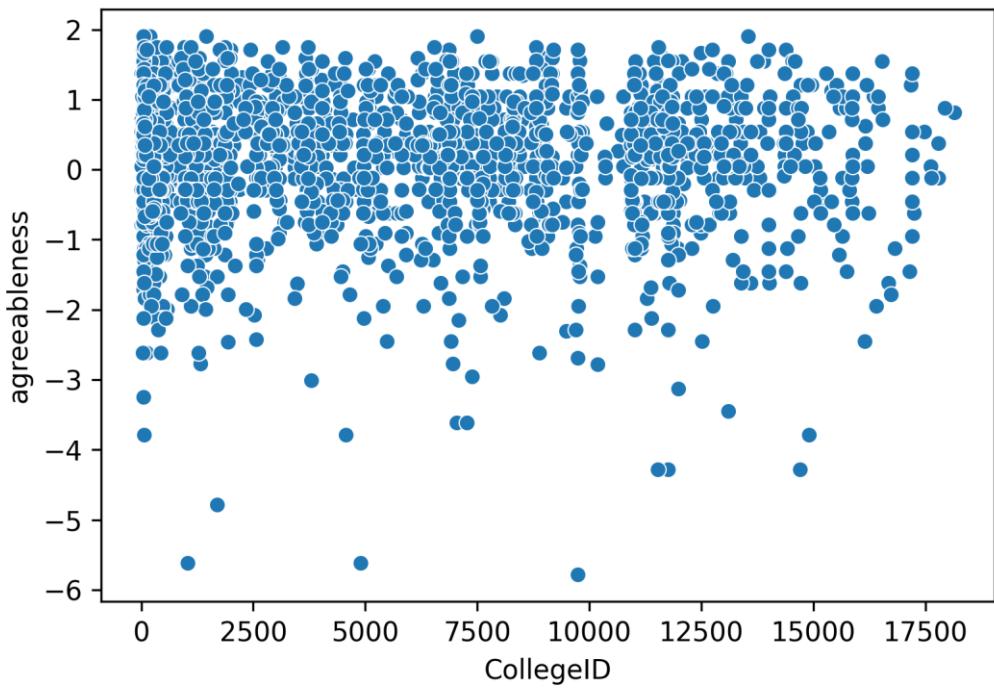
Scatter plot of collegeGPA vs Quant

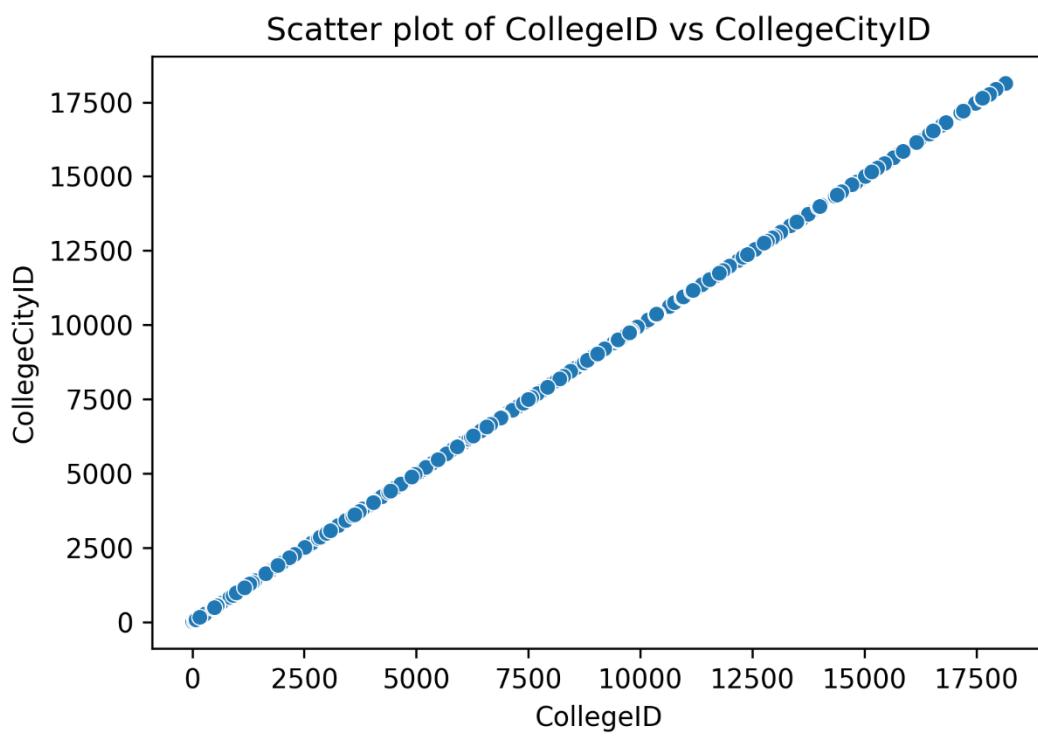
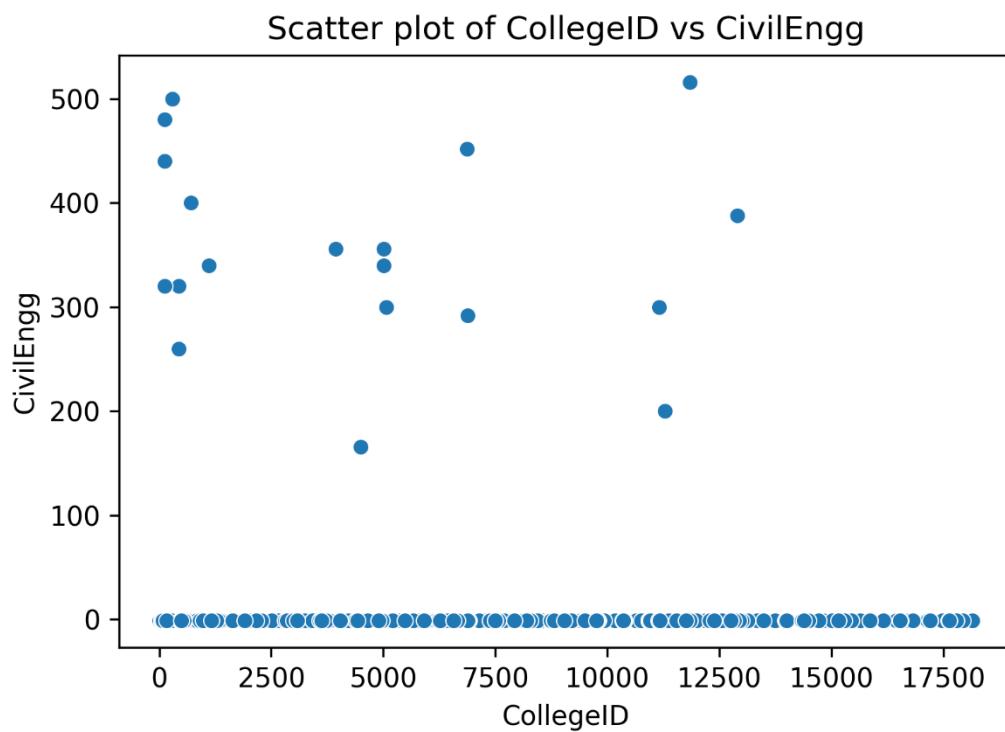


Scatter plot of collegeGPA vs TelecomEngg

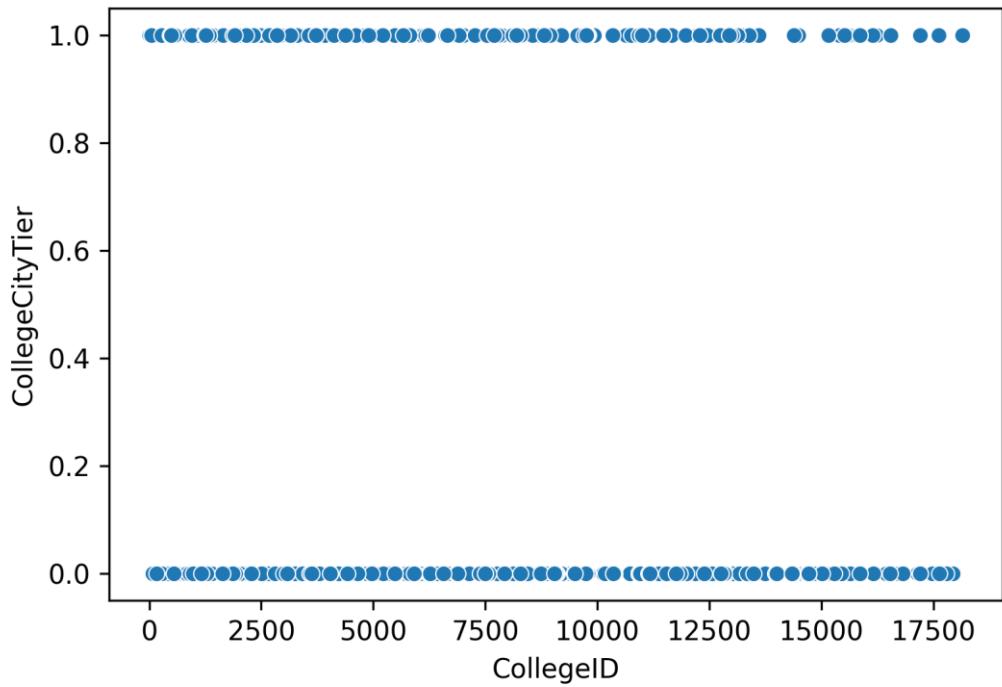


Scatter plot of CollegelD vs agreeableness

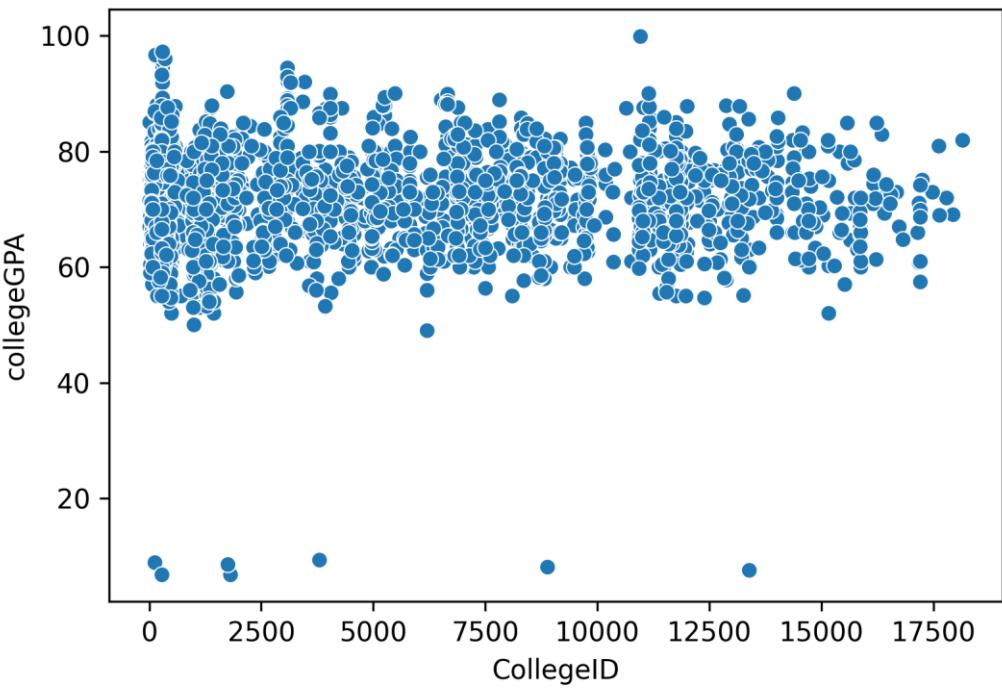




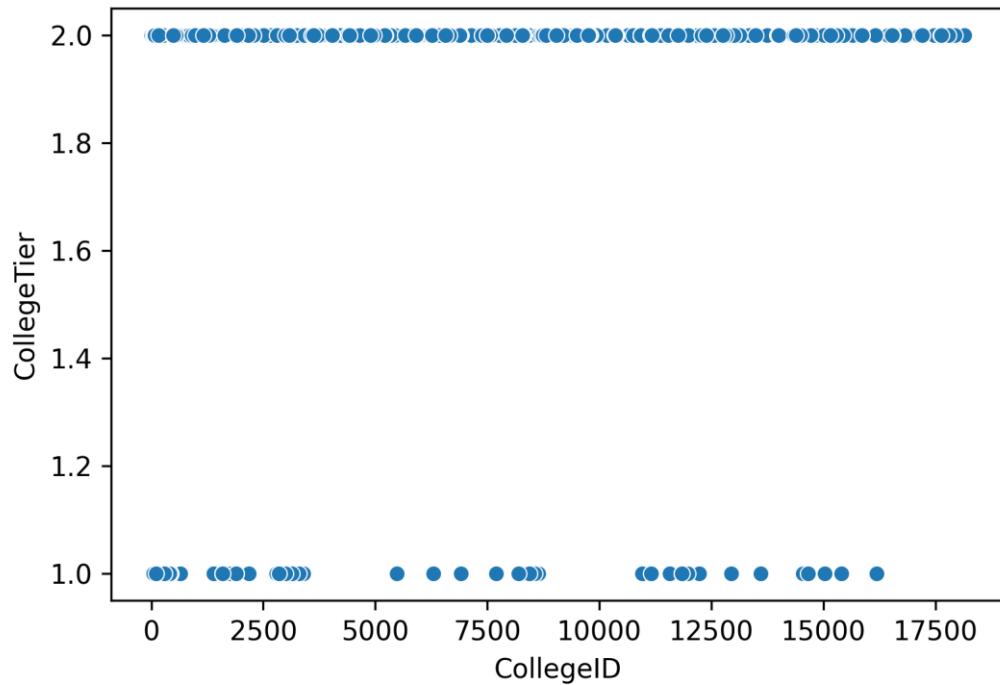
Scatter plot of CollegeID vs CollegeCityTier



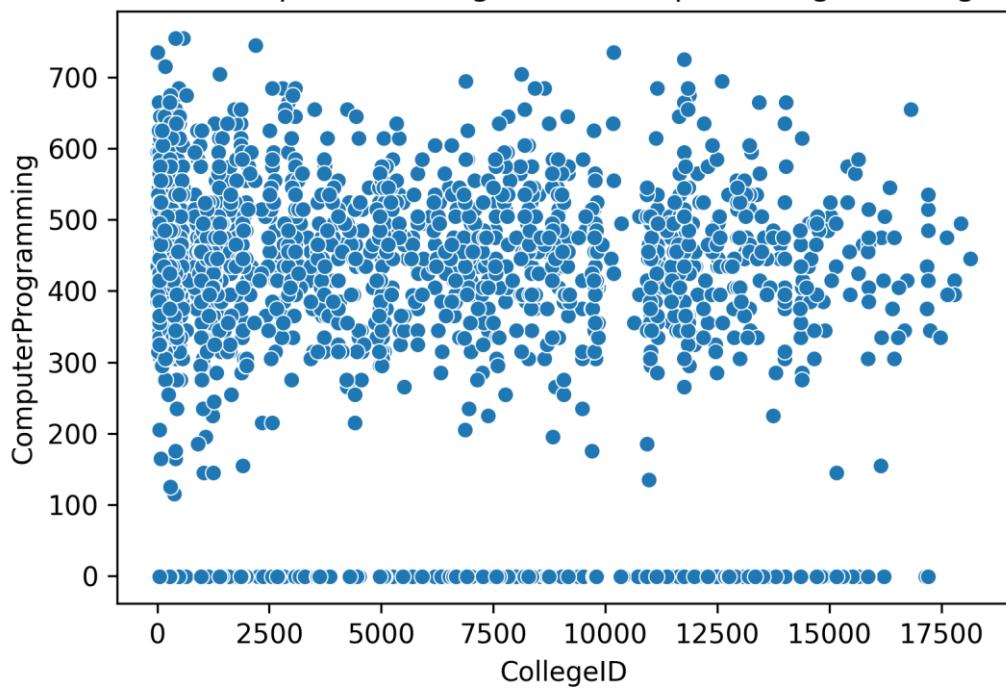
Scatter plot of CollegeID vs collegeGPA

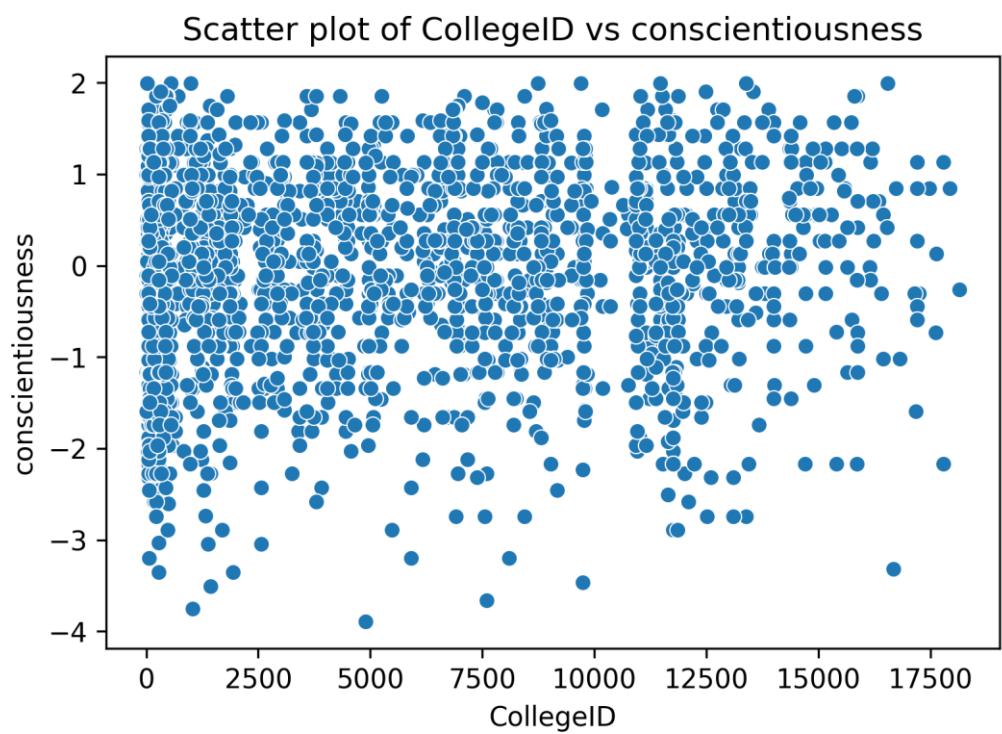
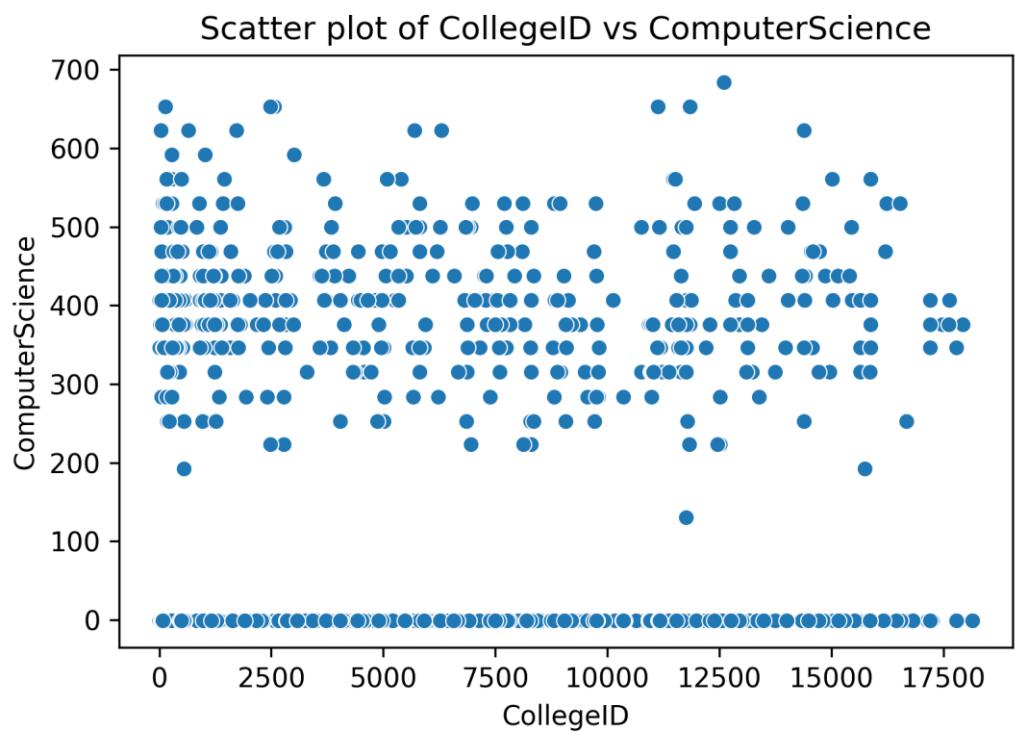


Scatter plot of CollegelD vs CollegeTier

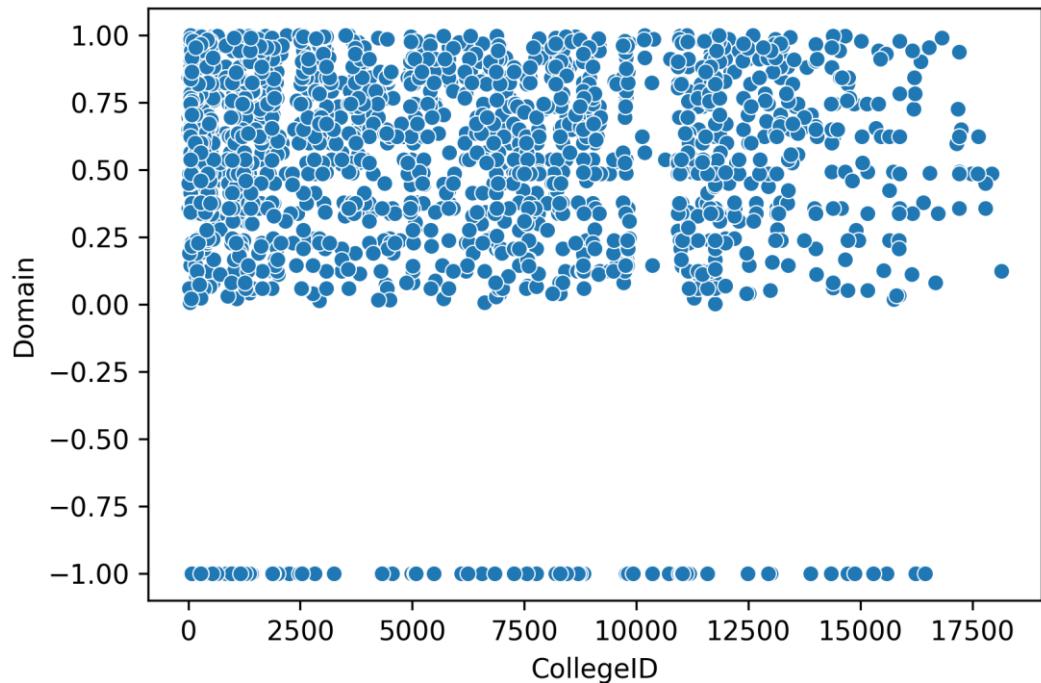


Scatter plot of CollegelD vs ComputerProgramming

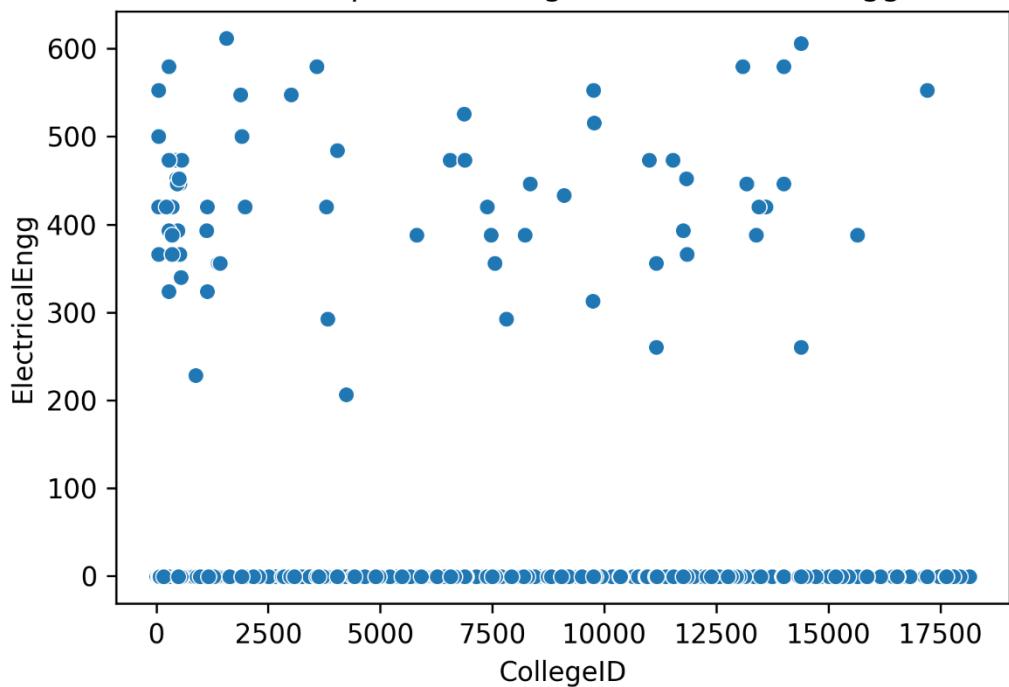




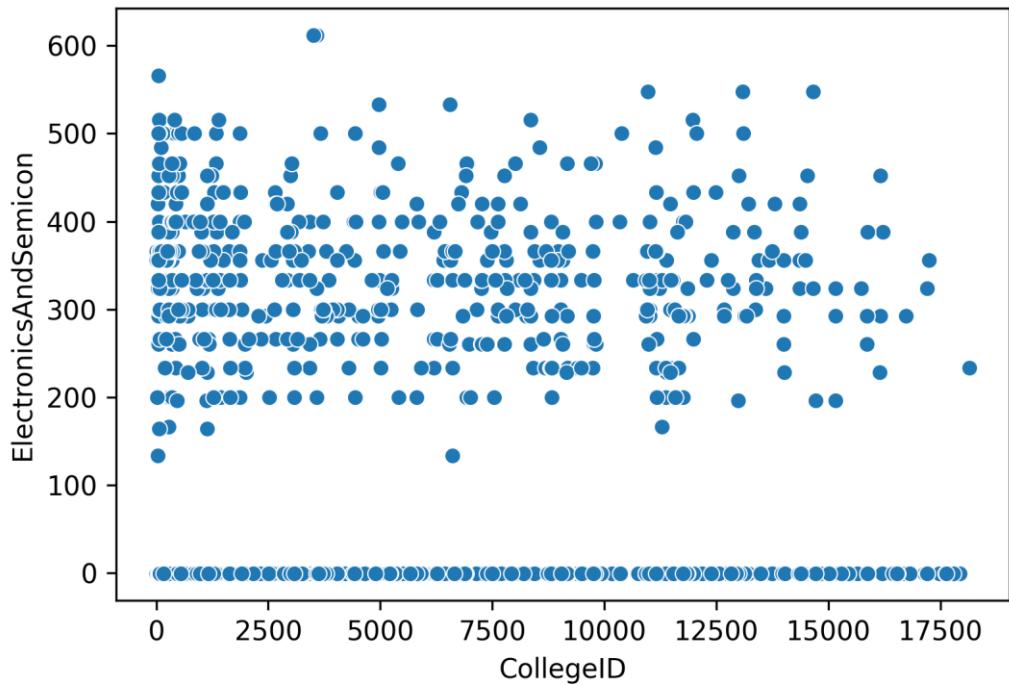
Scatter plot of CollegelD vs Domain



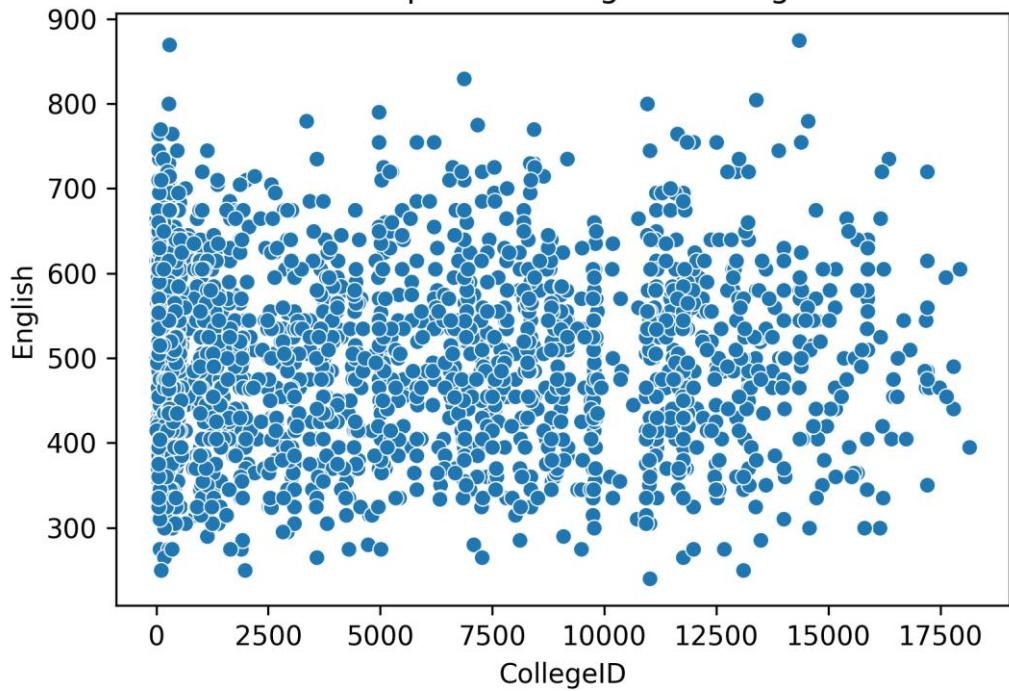
Scatter plot of CollegelD vs ElectricalEngg



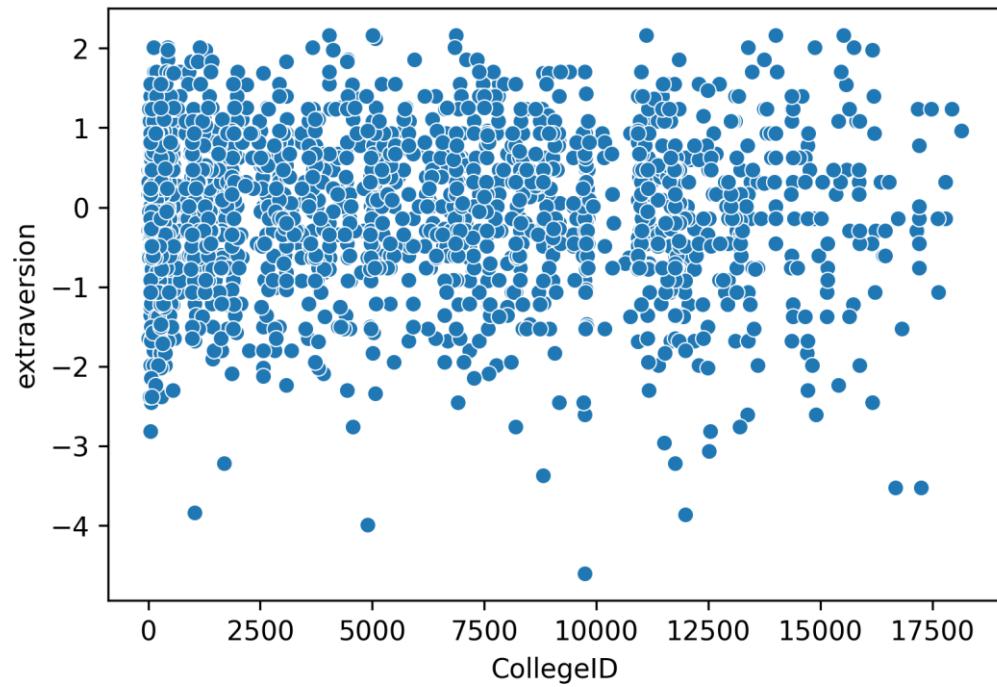
Scatter plot of CollegelD vs ElectronicsAndSemicon



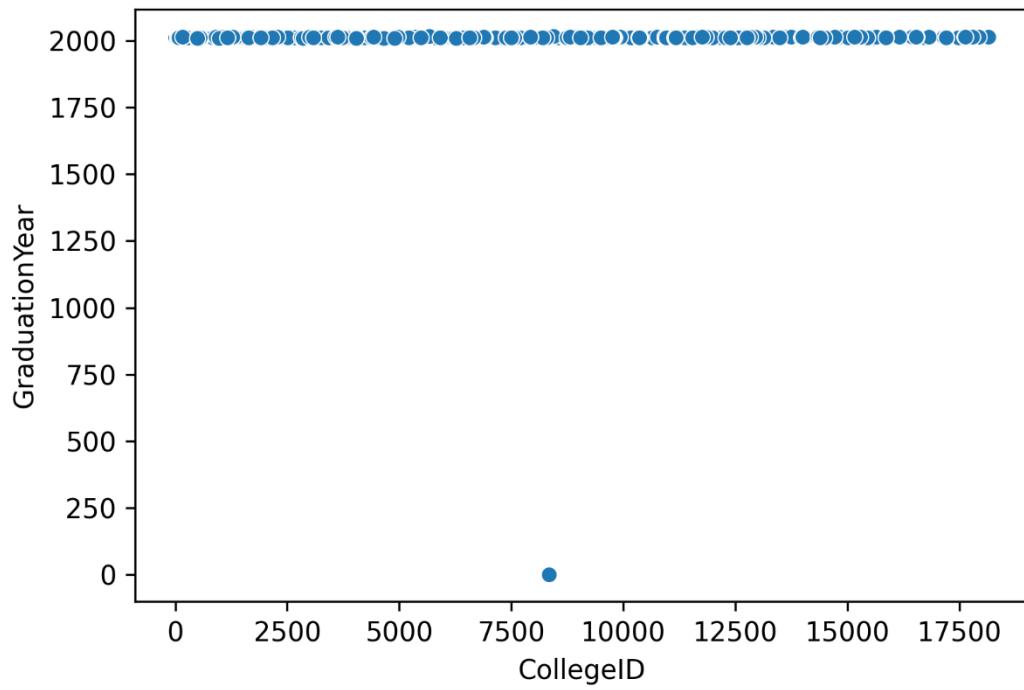
Scatter plot of CollegelD vs English



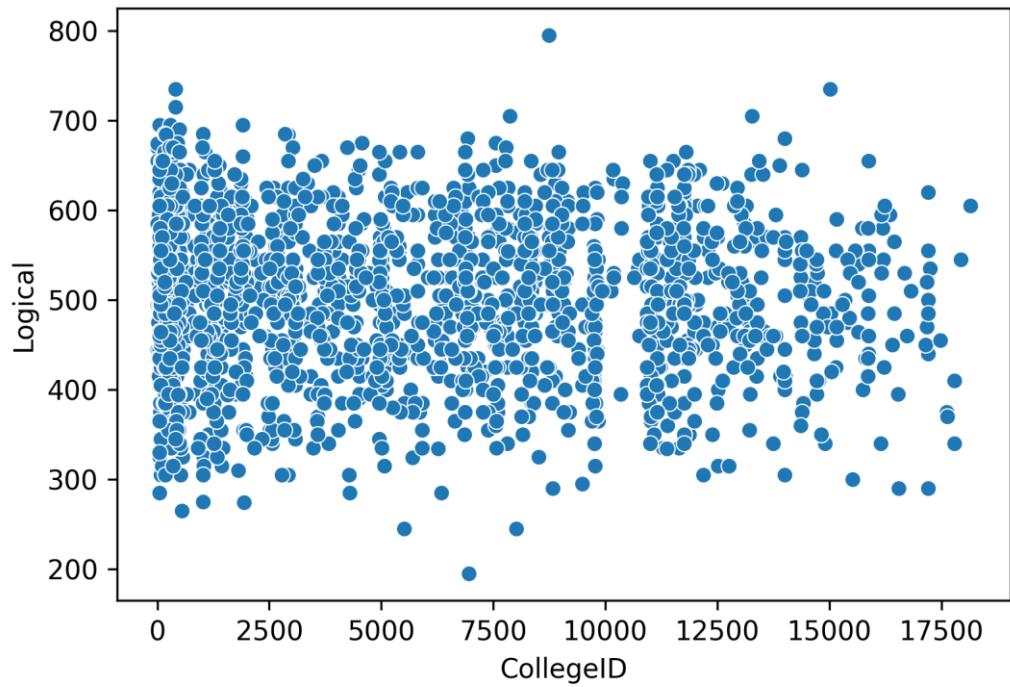
Scatter plot of CollegelD vs extraversion



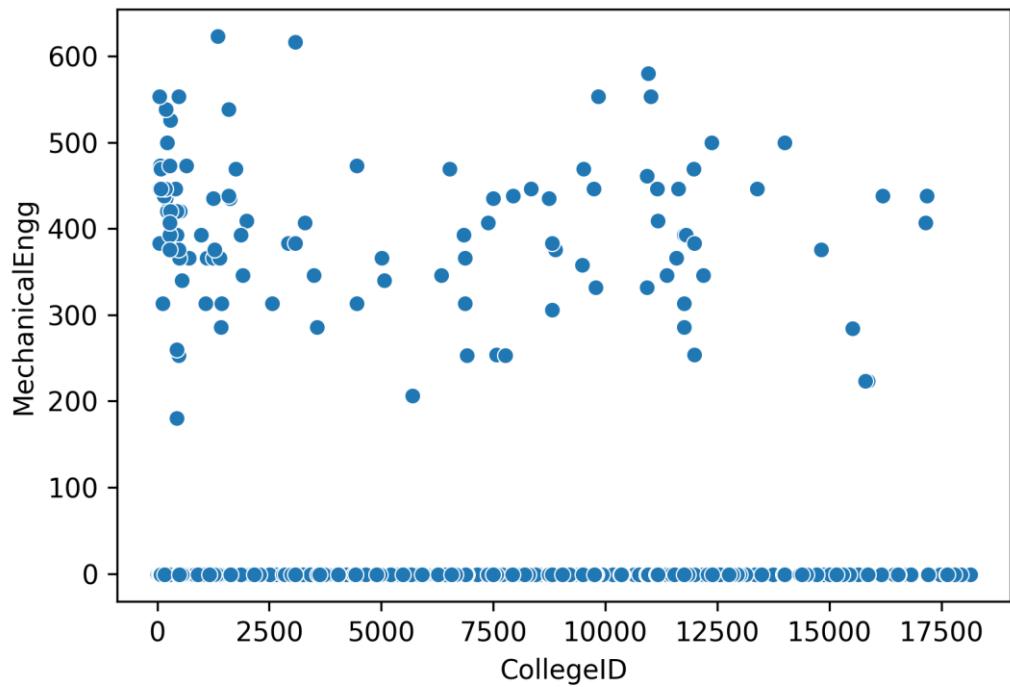
Scatter plot of CollegelD vs GraduationYear



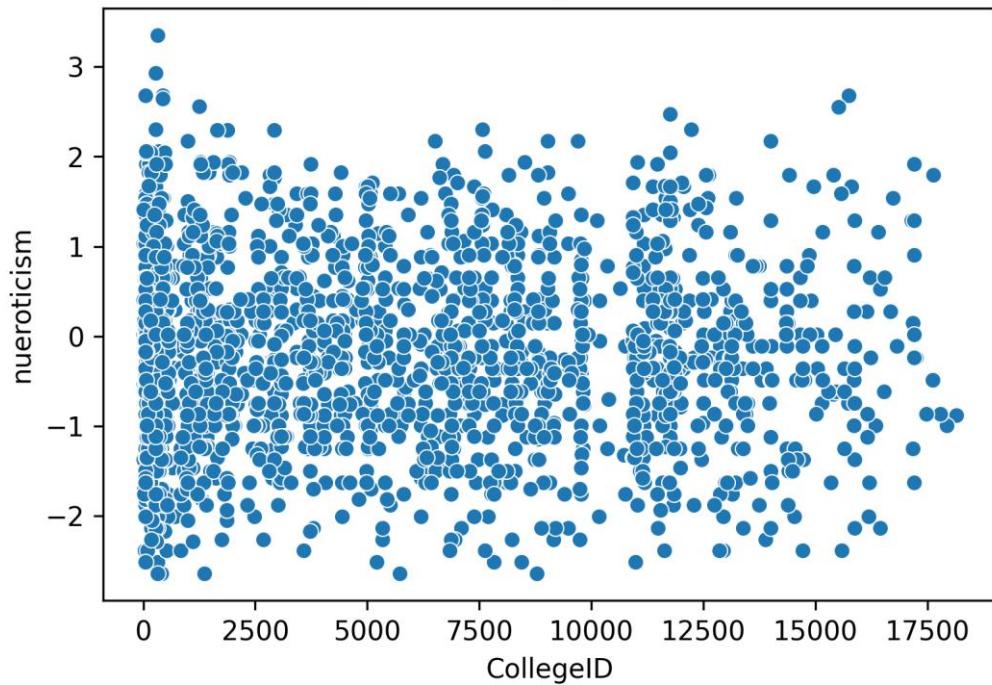
Scatter plot of CollegeID vs Logical



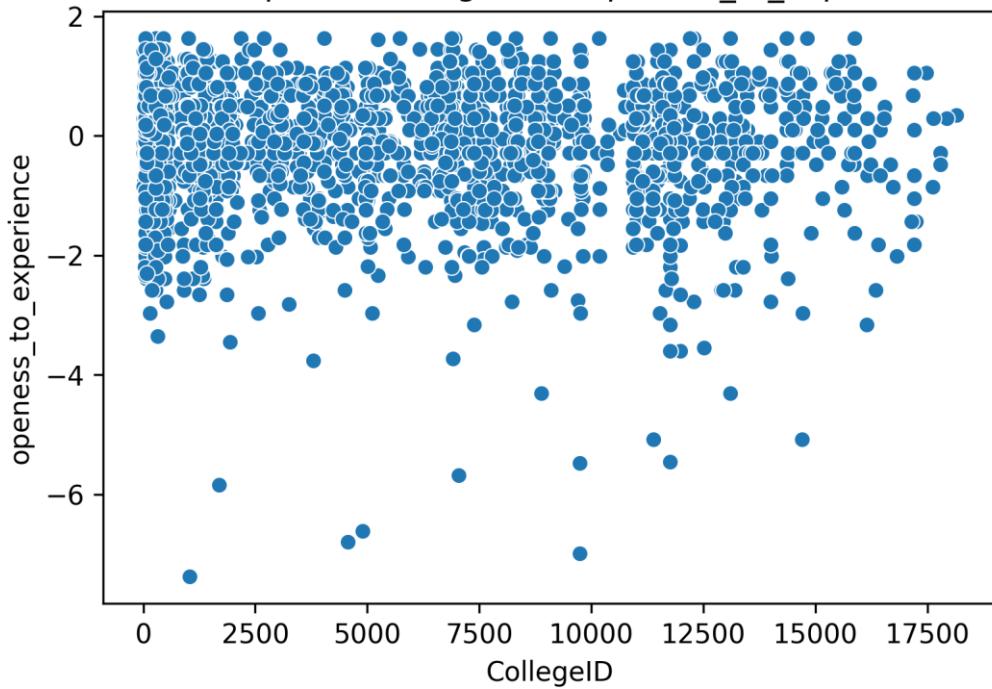
Scatter plot of CollegeID vs MechanicalEngg



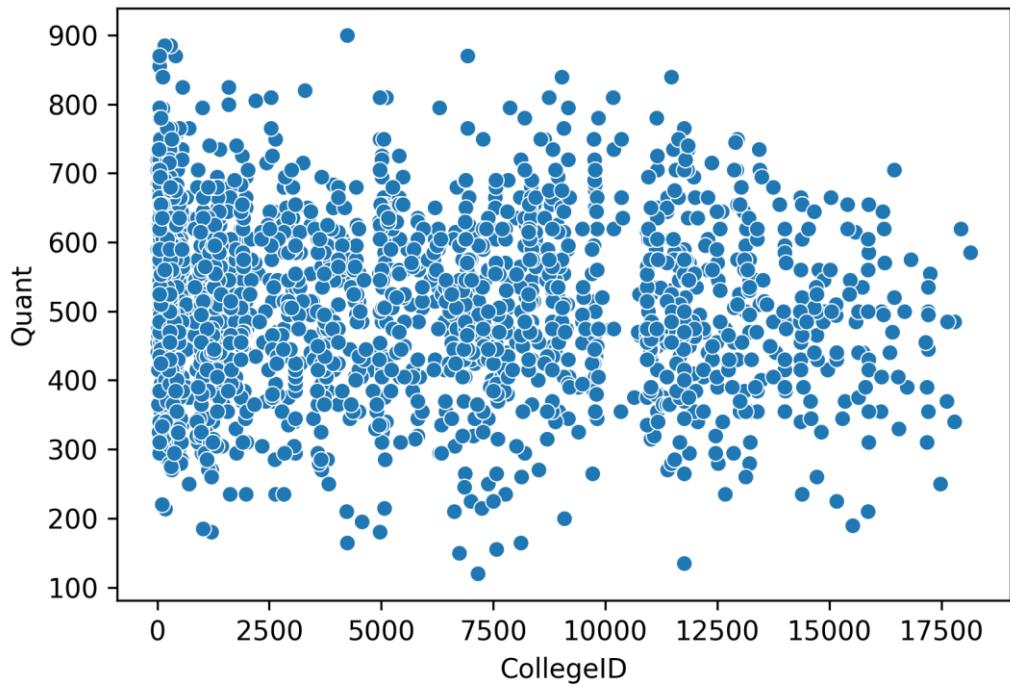
Scatter plot of CollegelD vs nueroticism



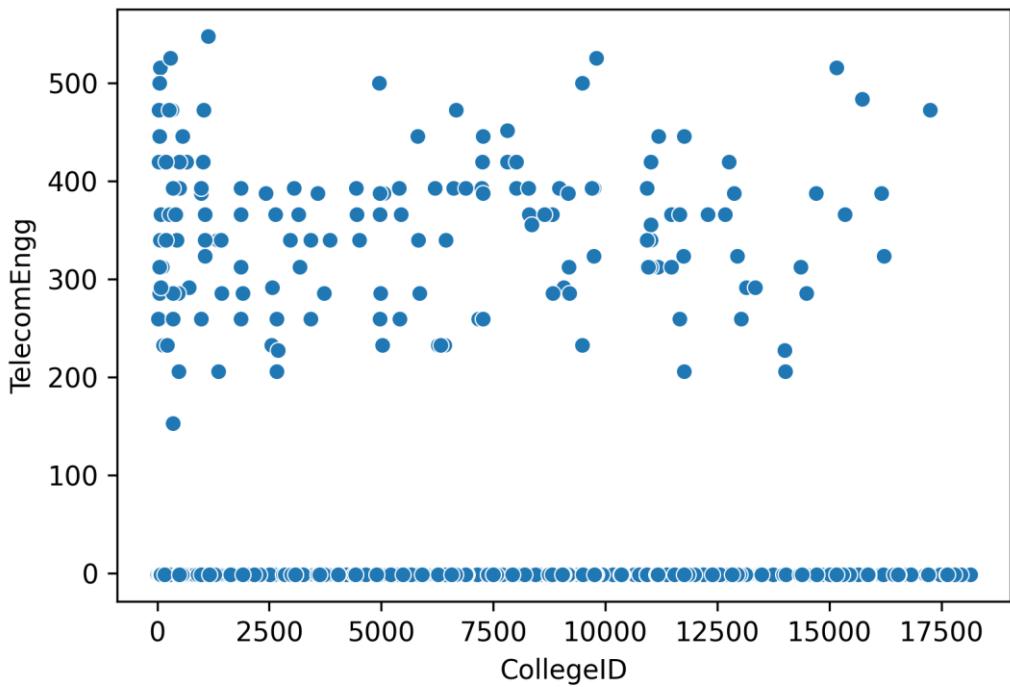
Scatter plot of CollegelD vs openness_to_experience



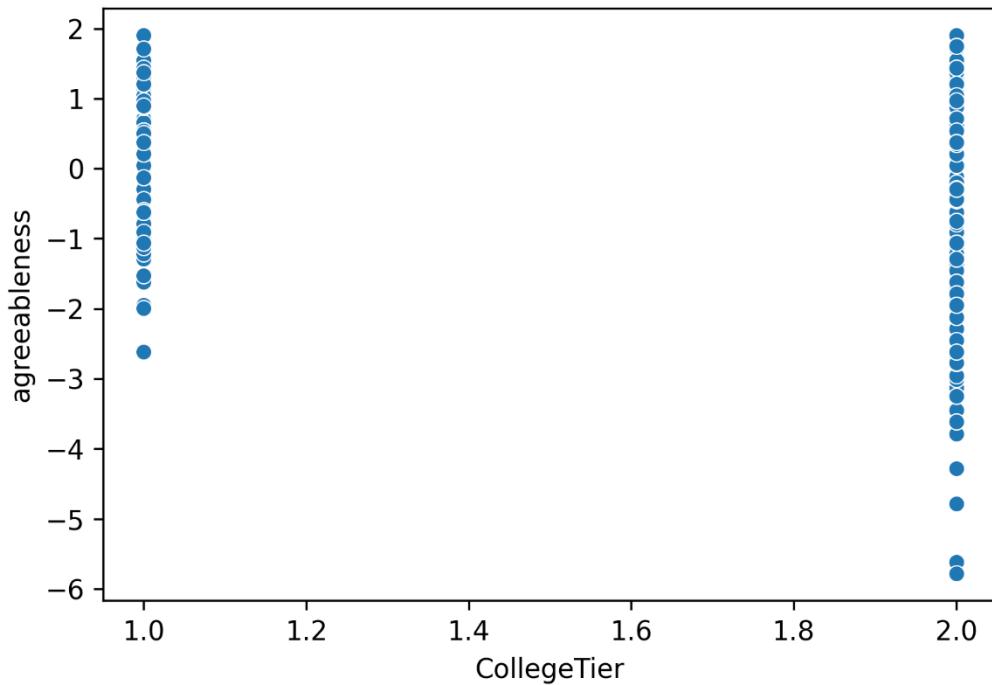
Scatter plot of CollegelD vs Quant



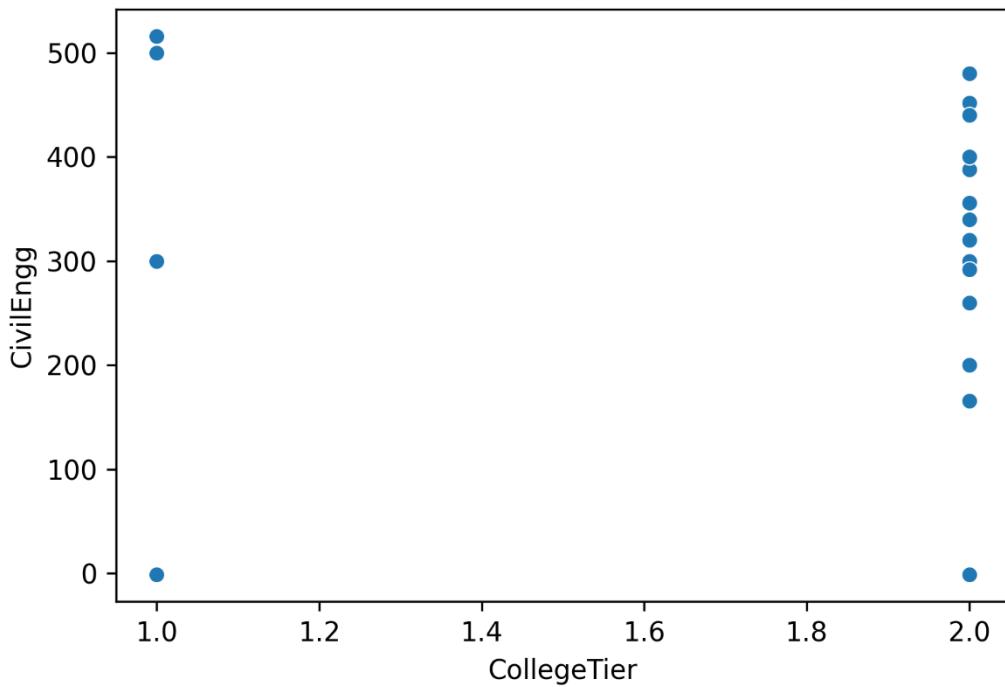
Scatter plot of CollegelD vs TelecomEngg



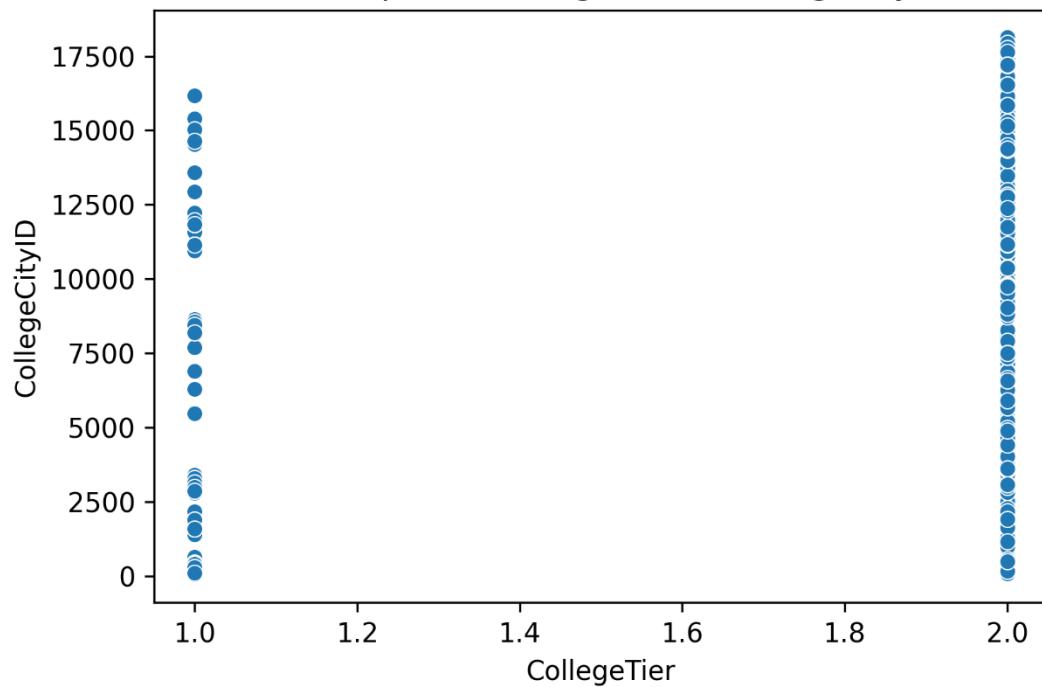
Scatter plot of CollegeTier vs agreeableness



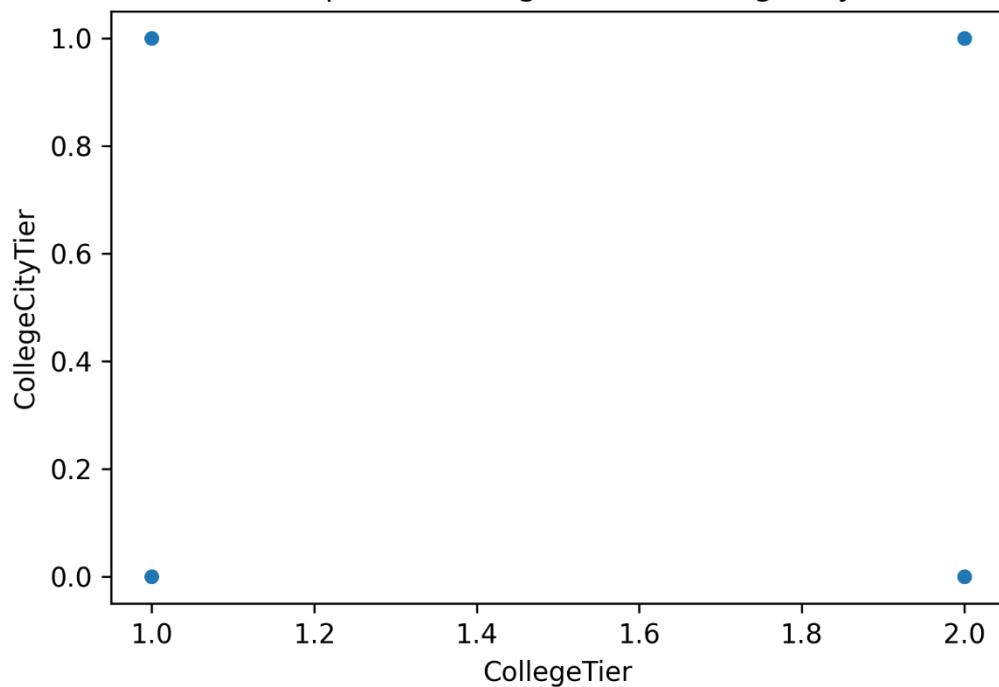
Scatter plot of CollegeTier vs CivilEngg



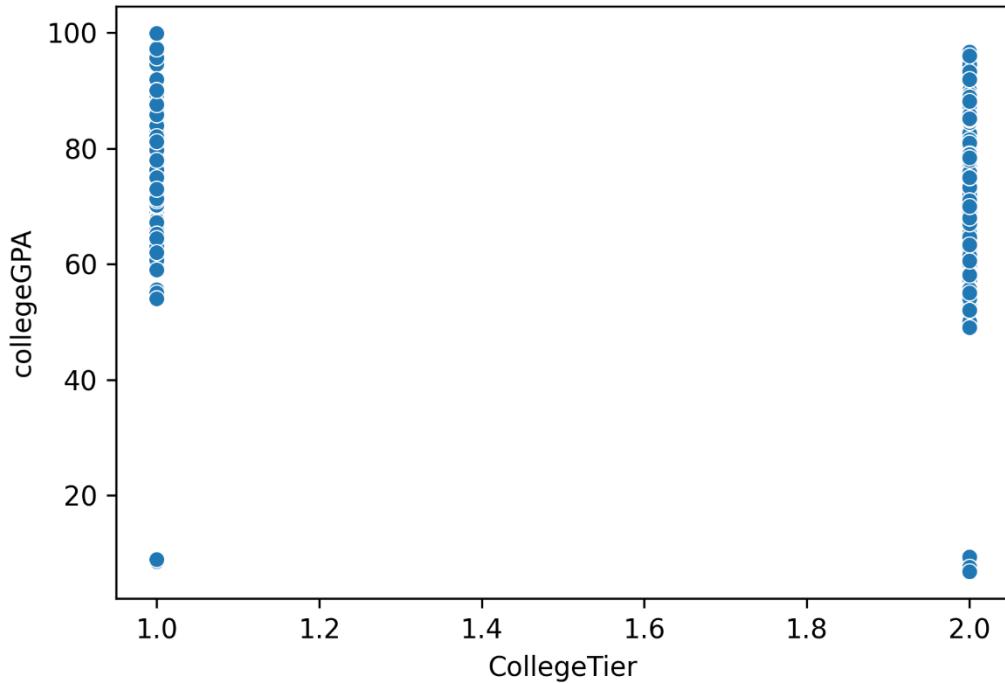
Scatter plot of CollegeTier vs CollegeCityID



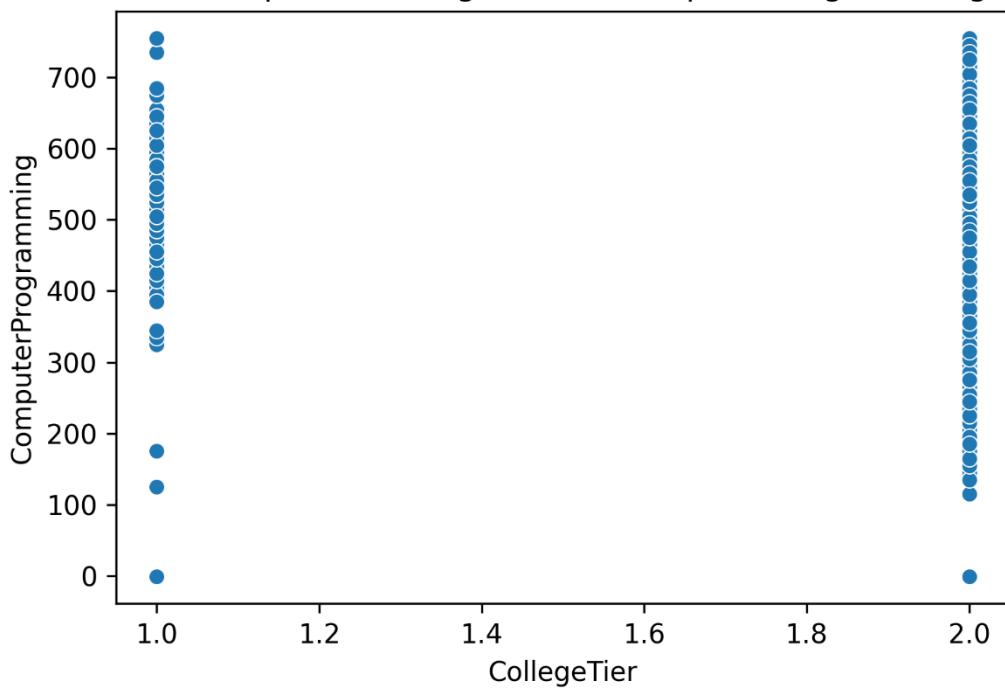
Scatter plot of CollegeTier vs CollegeCityTier



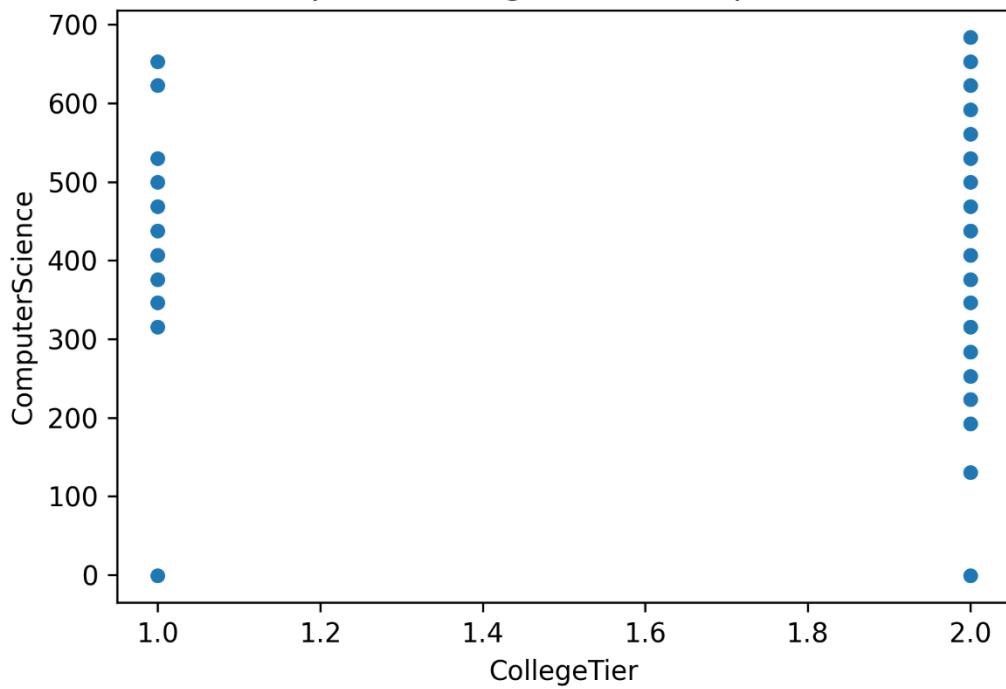
Scatter plot of CollegeTier vs collegeGPA



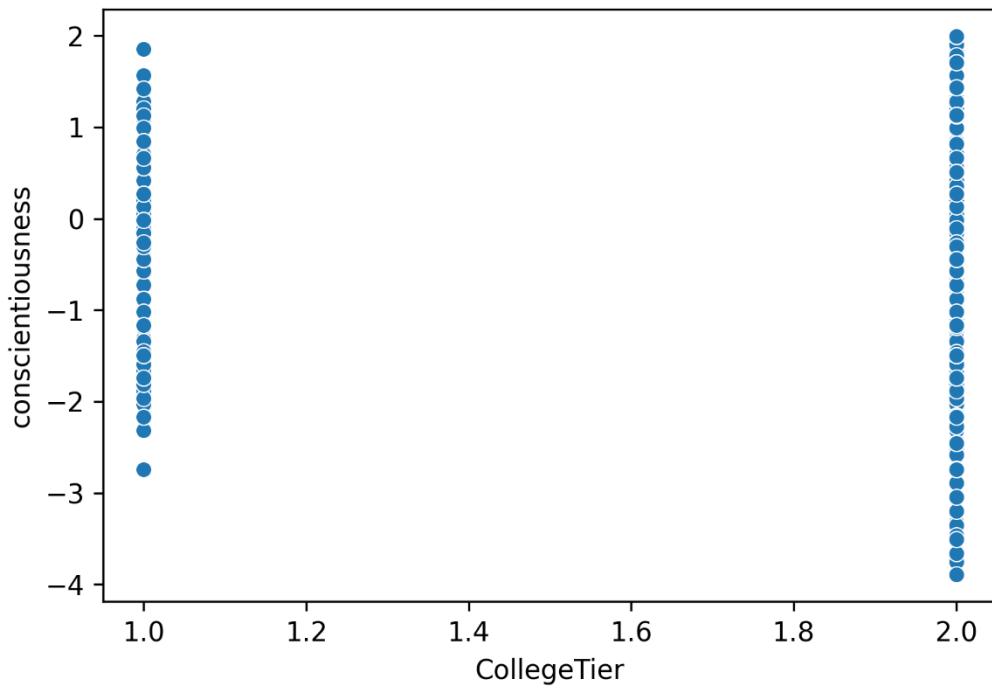
Scatter plot of CollegeTier vs ComputerProgramming



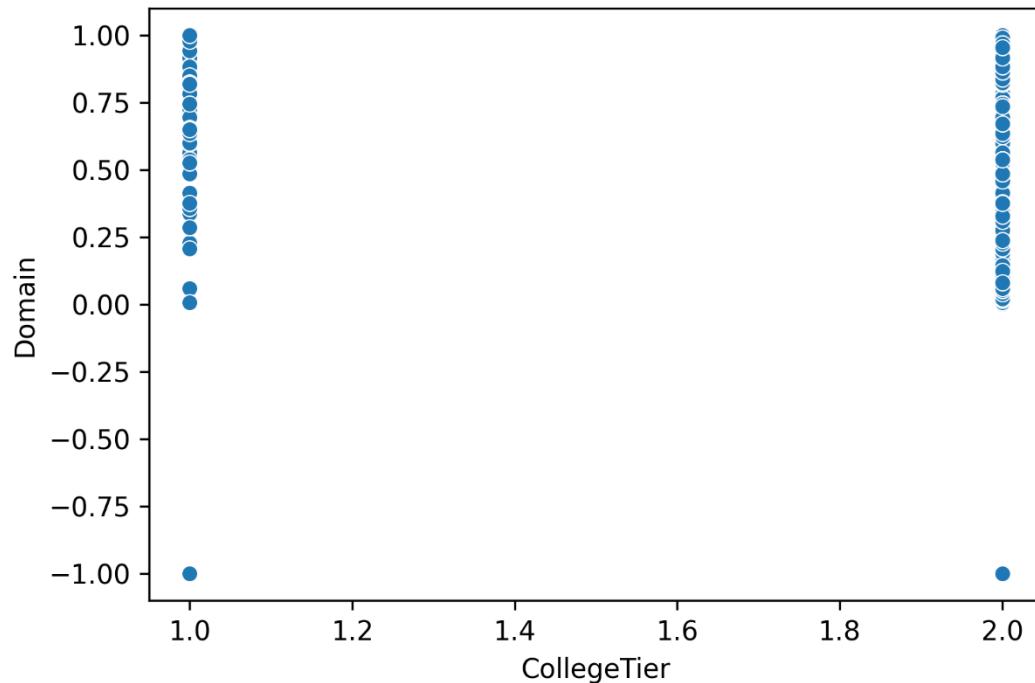
Scatter plot of CollegeTier vs ComputerScience



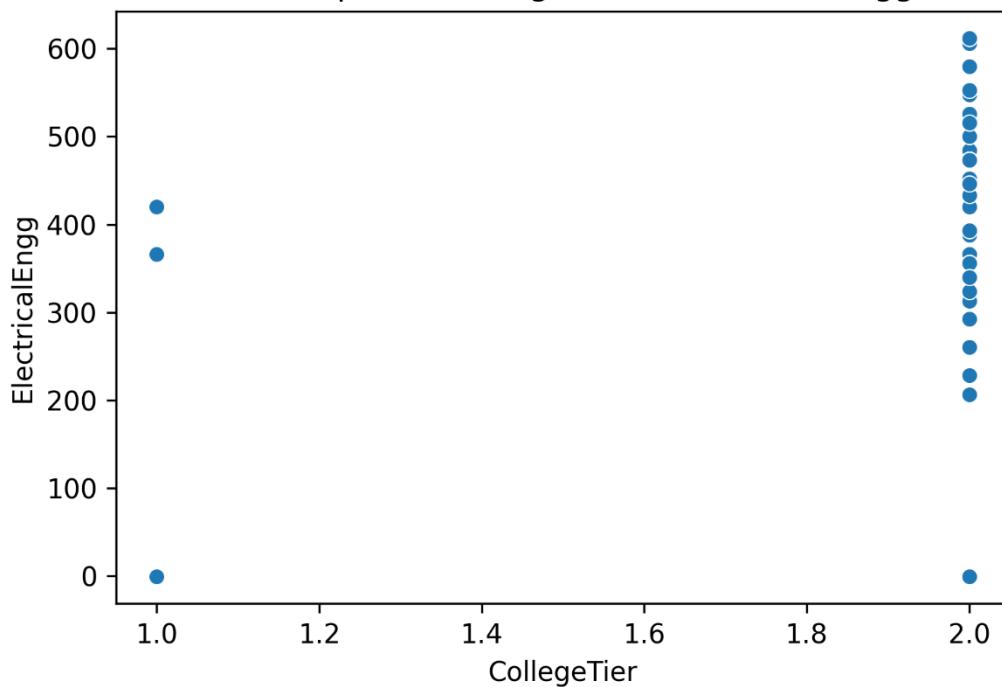
Scatter plot of CollegeTier vs conscientiousness



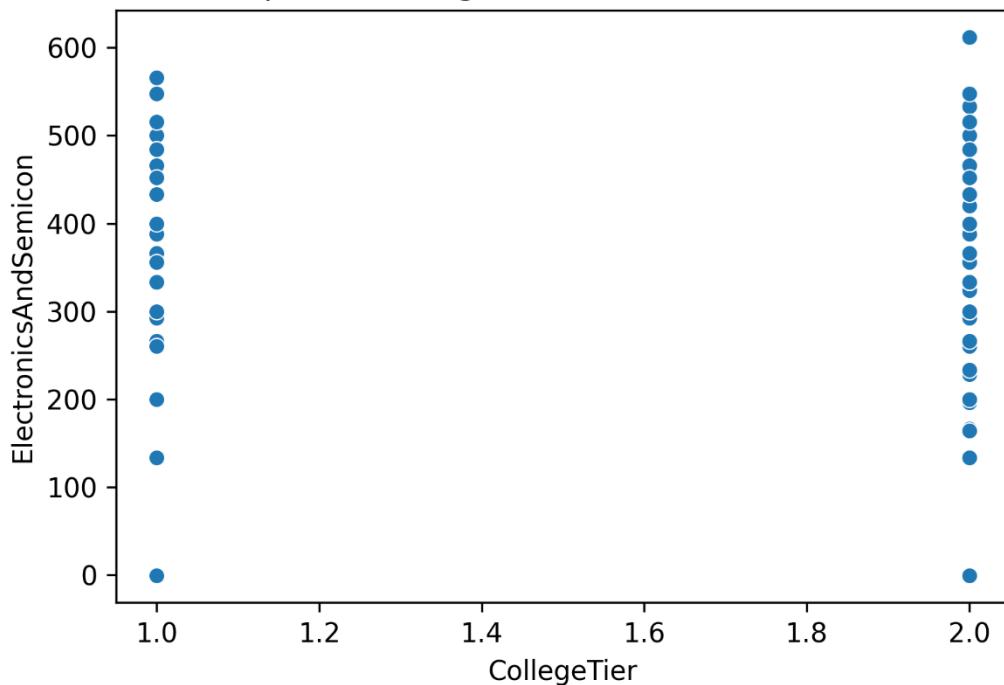
Scatter plot of CollegeTier vs Domain



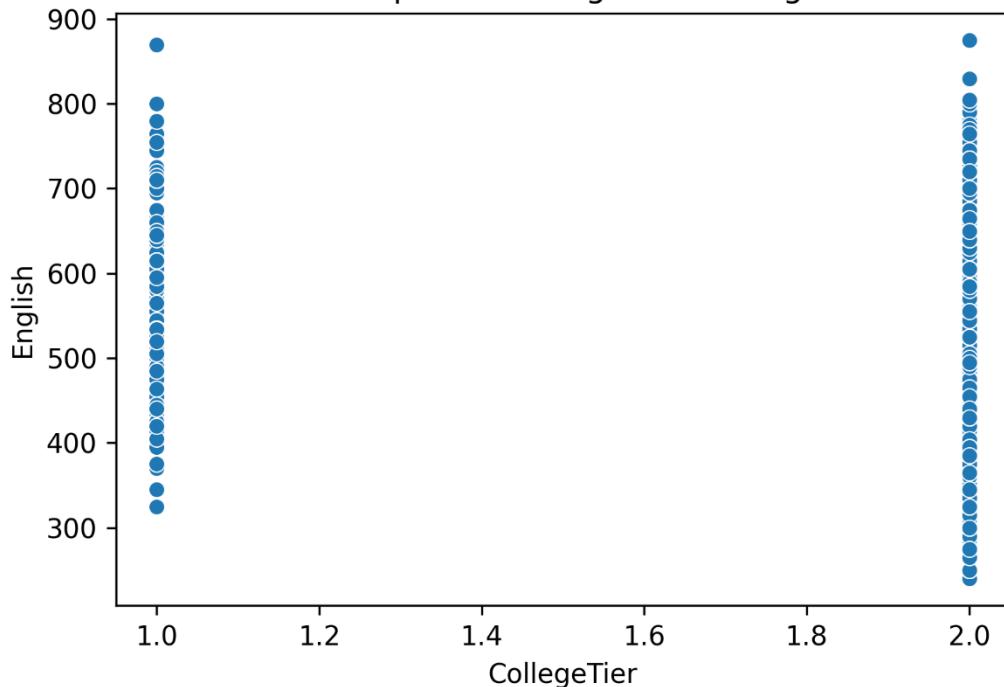
Scatter plot of CollegeTier vs ElectricalEngg



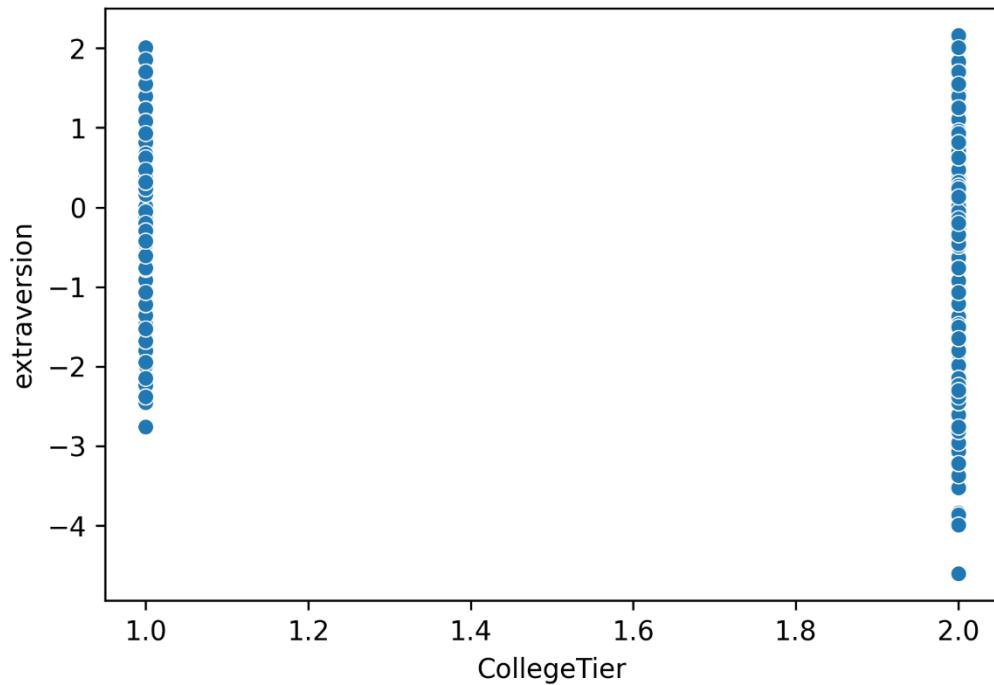
Scatter plot of CollegeTier vs ElectronicsAndSemicon



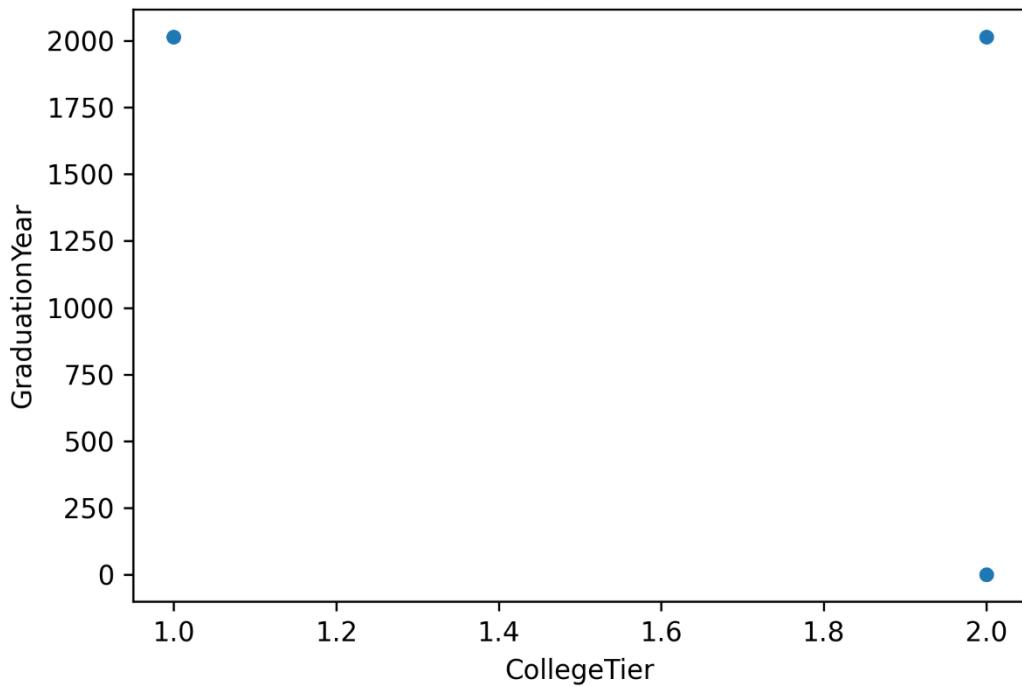
Scatter plot of CollegeTier vs English



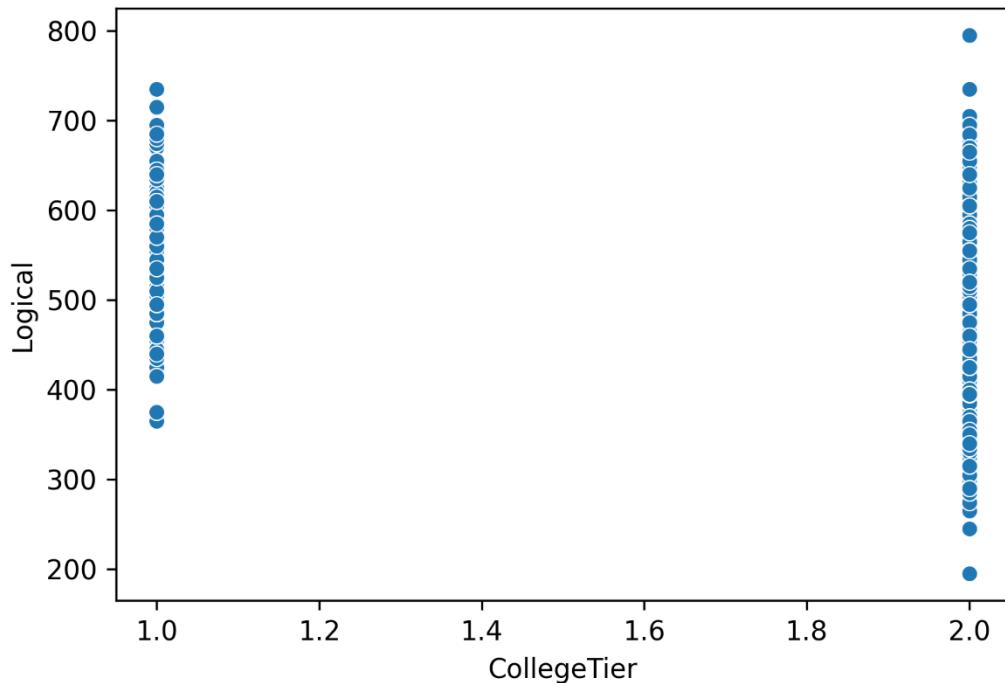
Scatter plot of CollegeTier vs extraversion



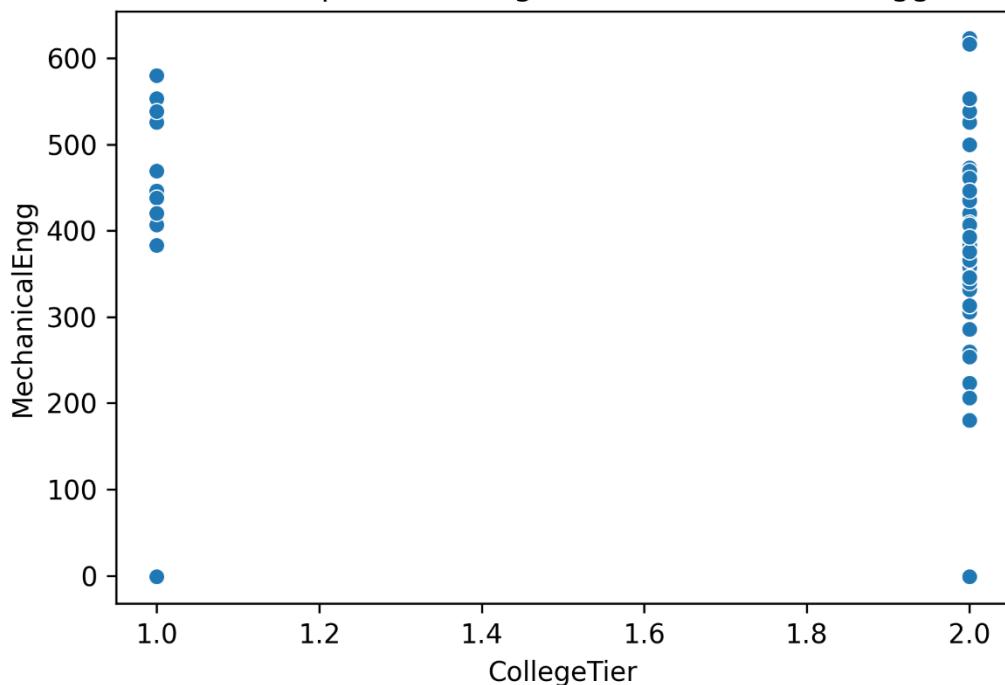
Scatter plot of CollegeTier vs GraduationYear



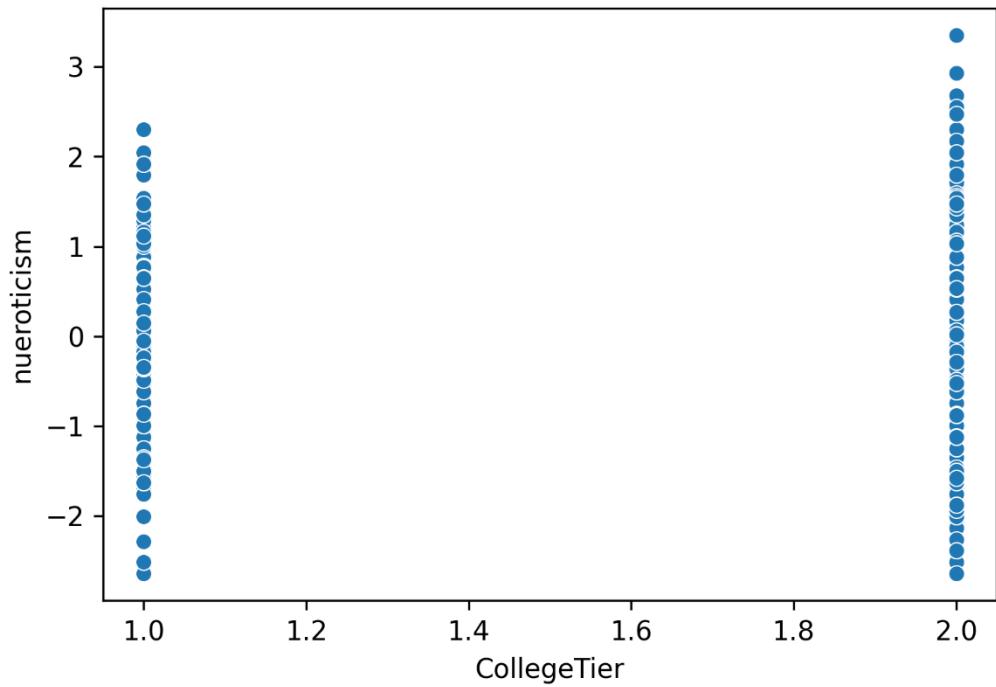
Scatter plot of CollegeTier vs Logical



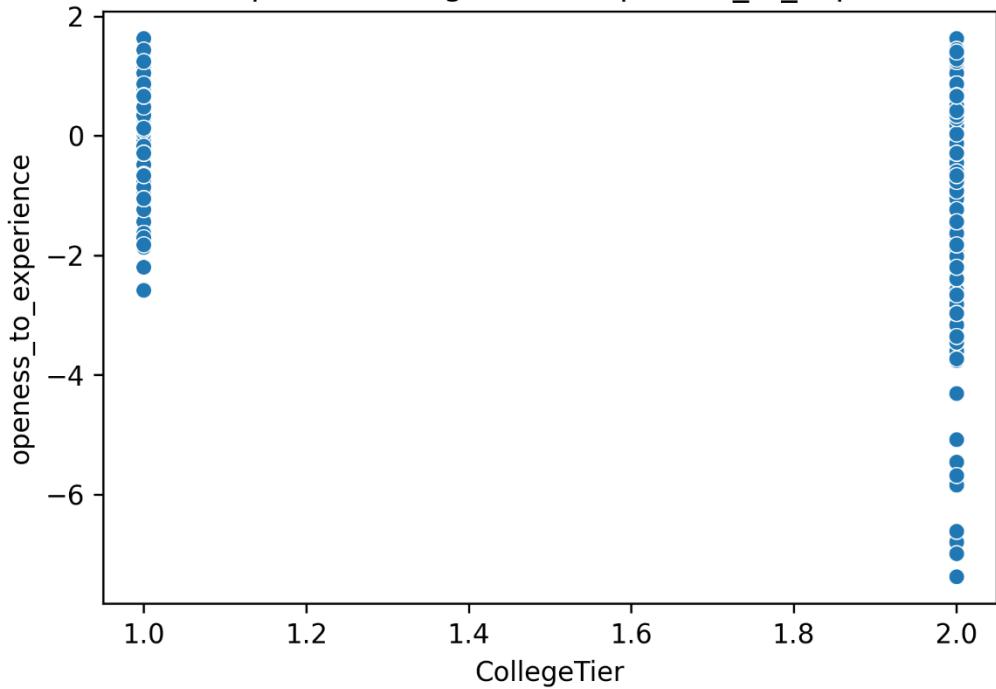
Scatter plot of CollegeTier vs MechanicalEngg



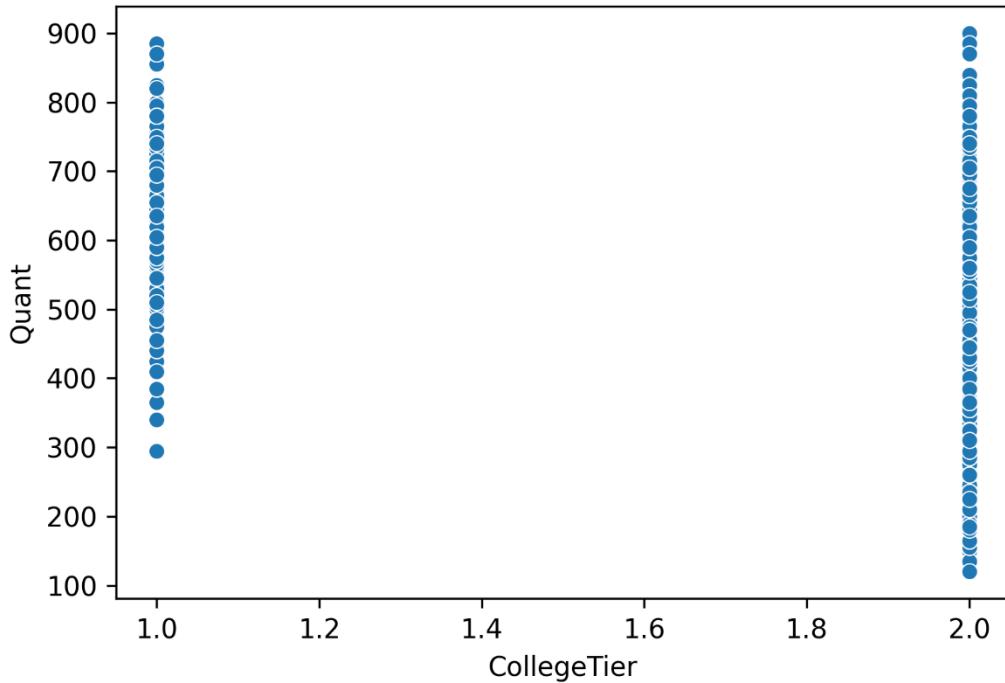
Scatter plot of CollegeTier vs nuerotism



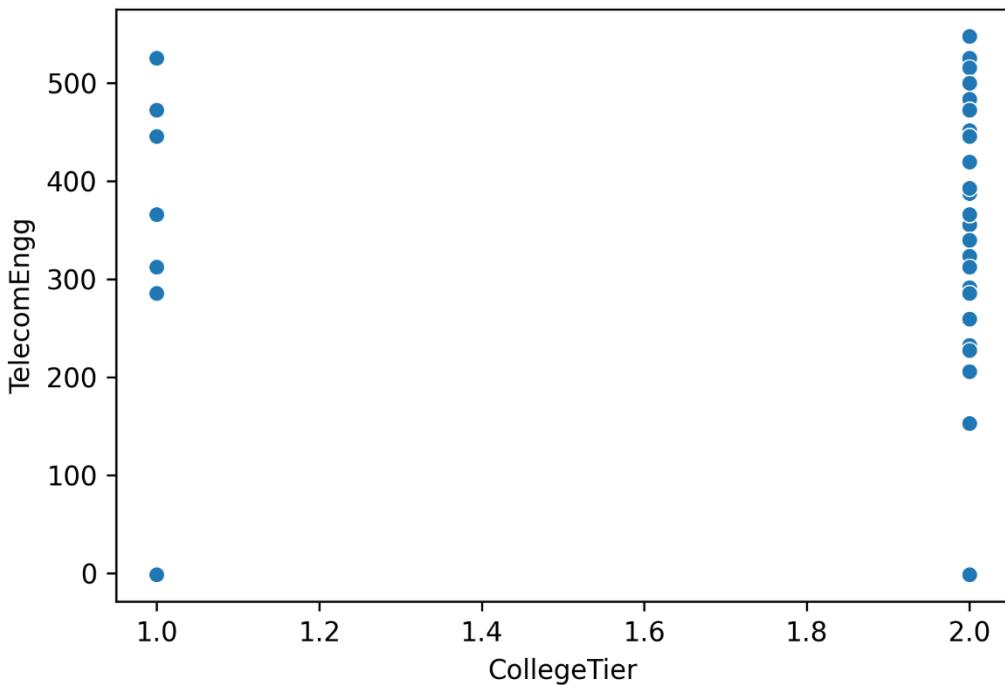
Scatter plot of CollegeTier vs openness_to_experience



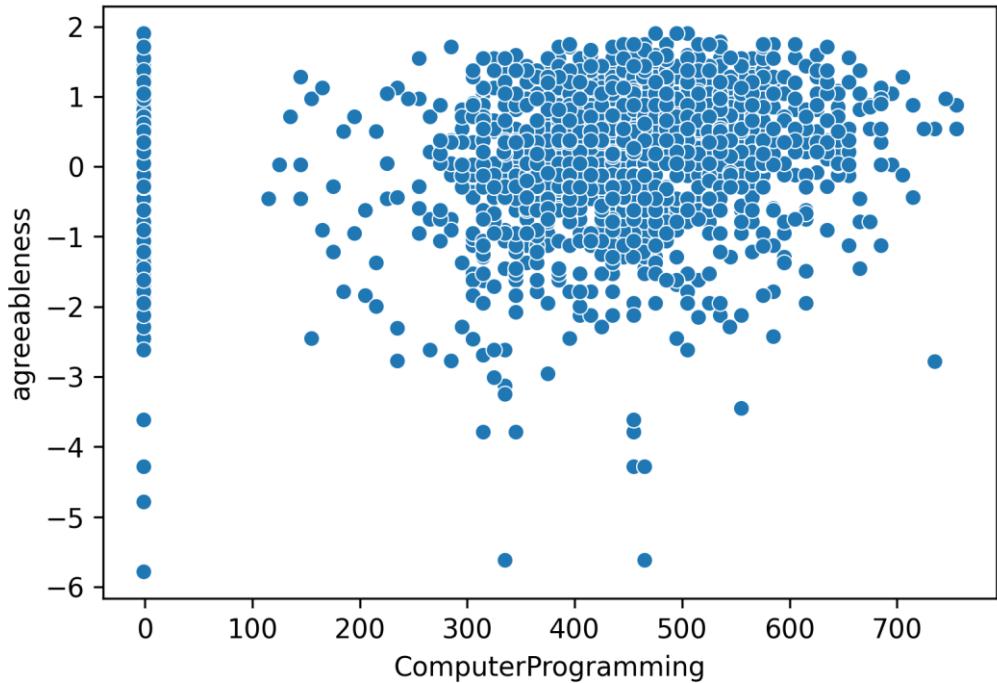
Scatter plot of CollegeTier vs Quant



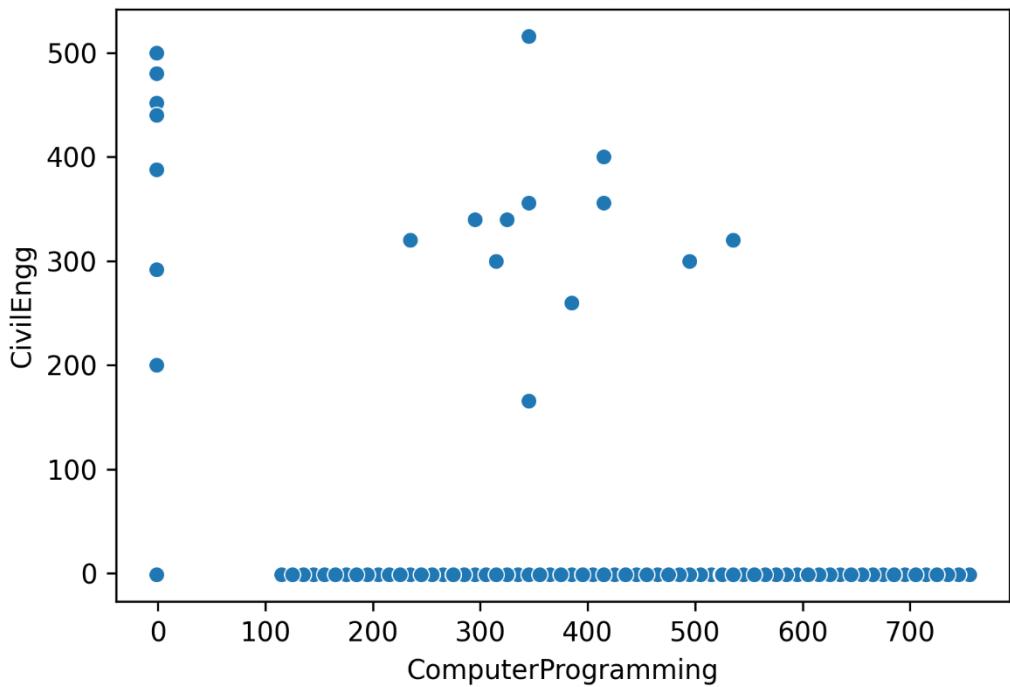
Scatter plot of CollegeTier vs TelecomEngg

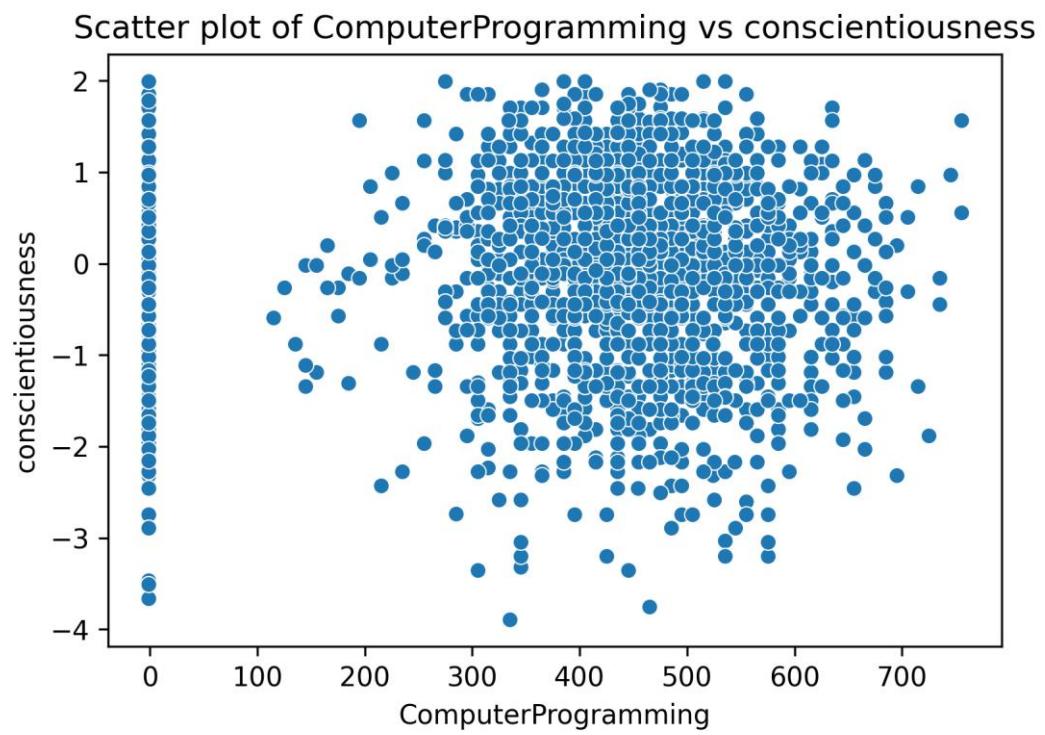
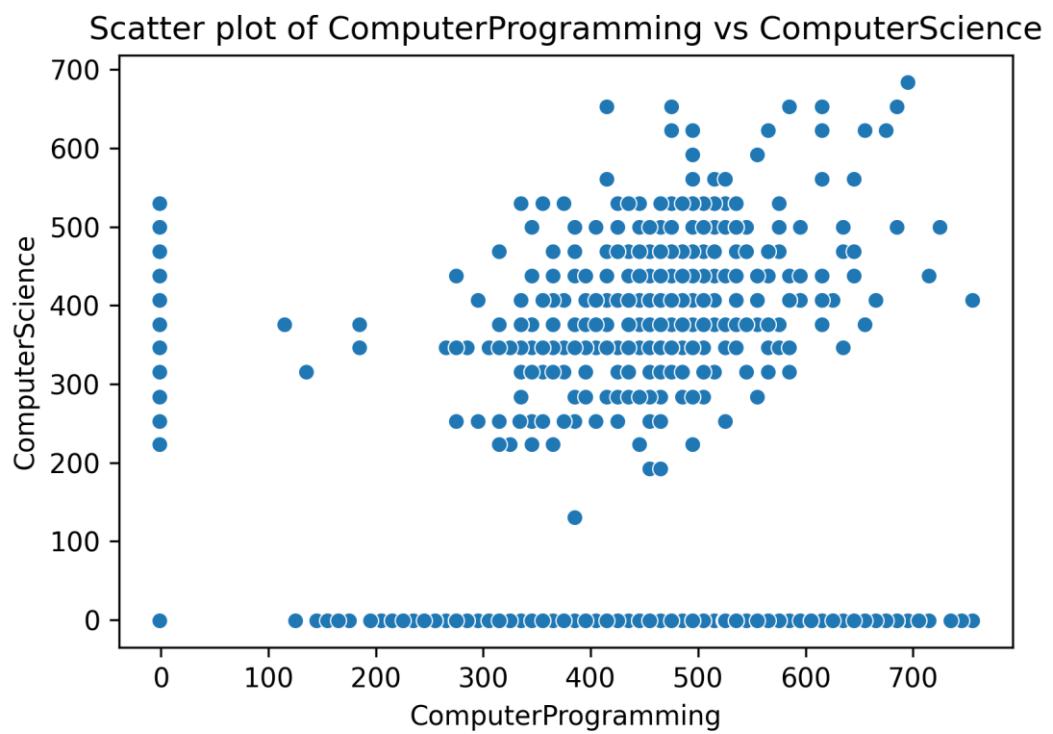


Scatter plot of ComputerProgramming vs agreeableness

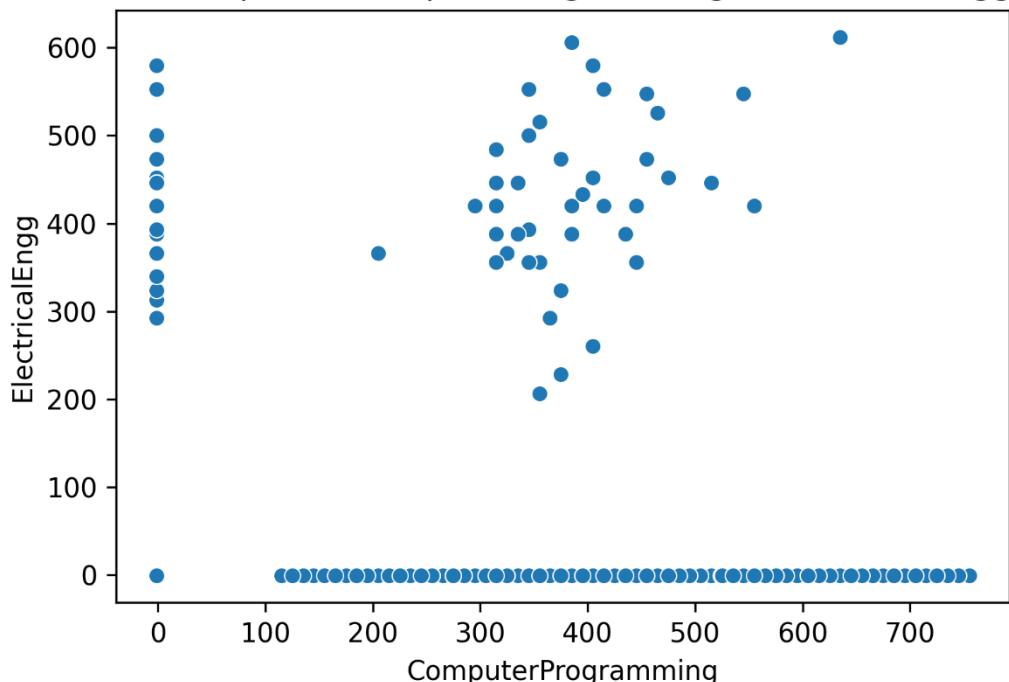


Scatter plot of ComputerProgramming vs CivilEngg

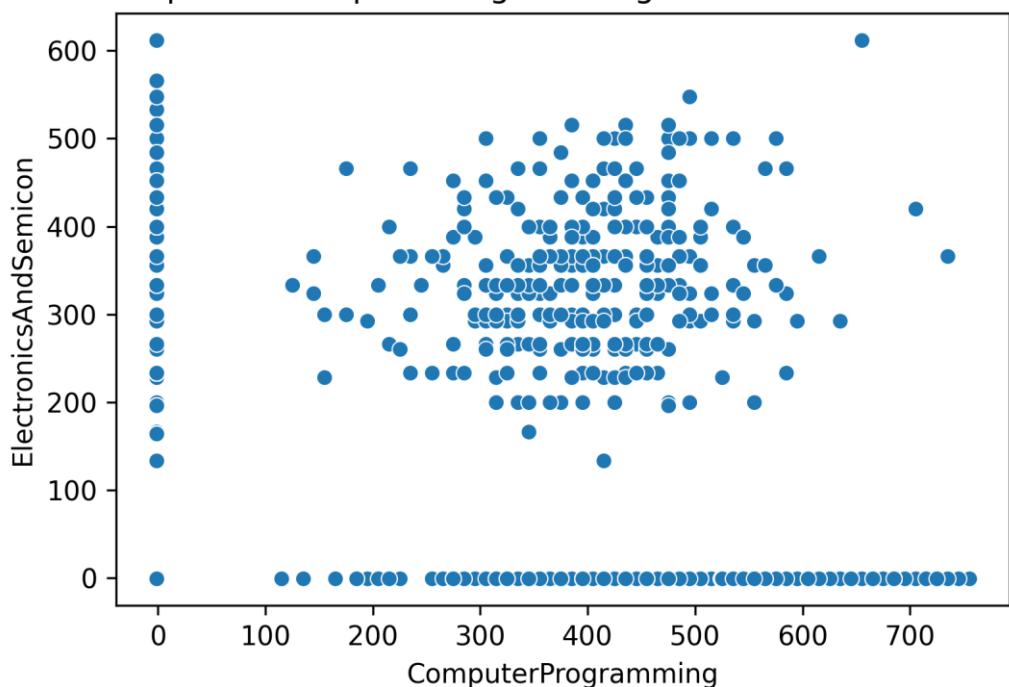




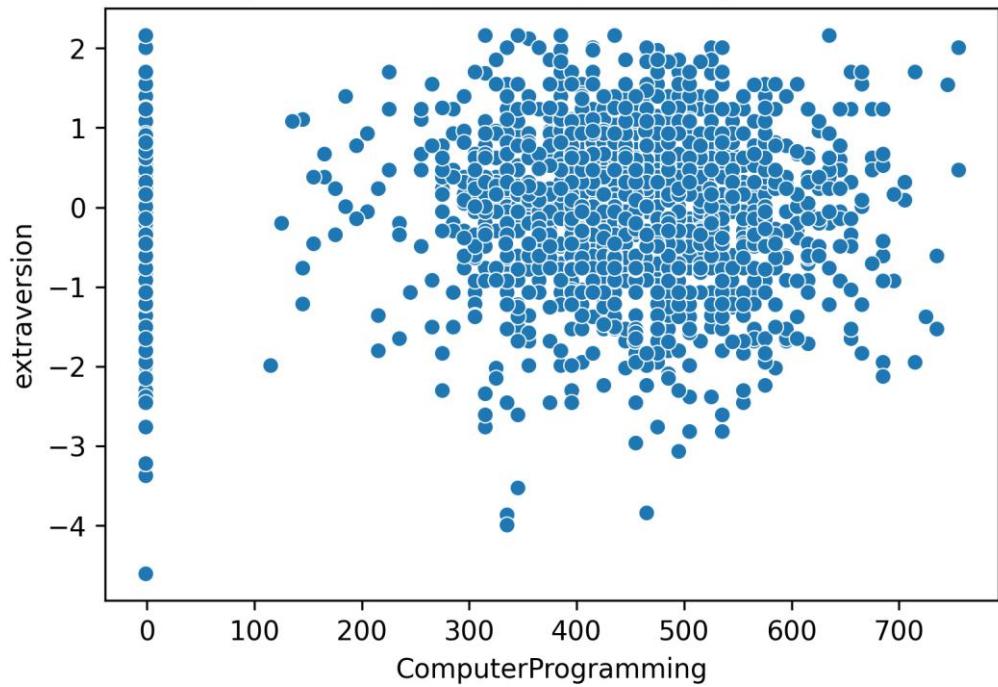
Scatter plot of ComputerProgramming vs ElectricalEngg



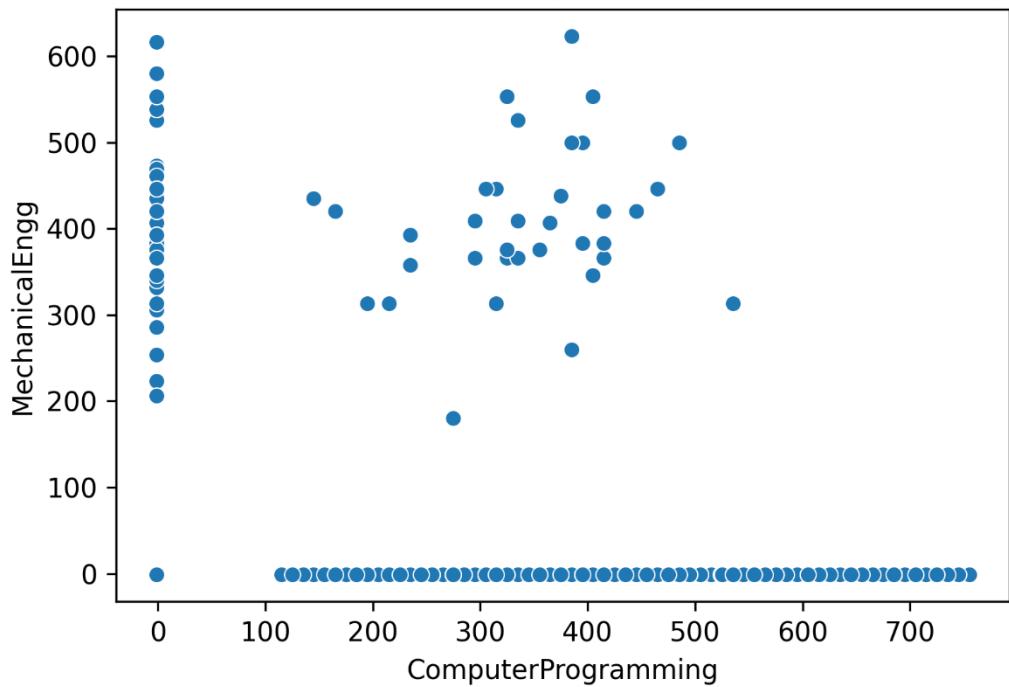
Scatter plot of ComputerProgramming vs ElectronicsAndSemicon



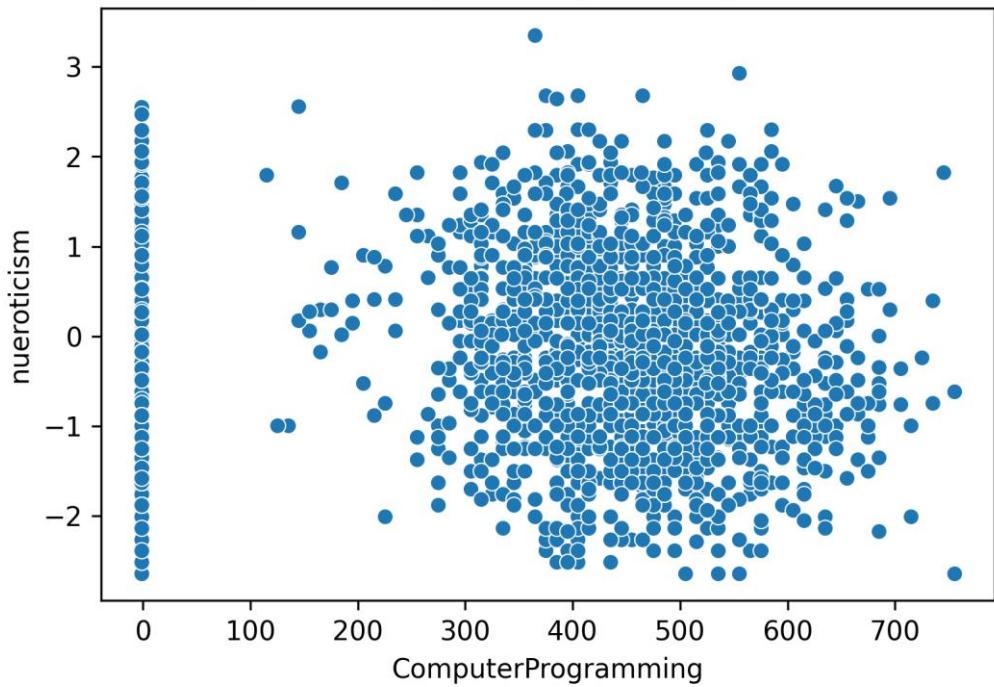
Scatter plot of ComputerProgramming vs extraversion



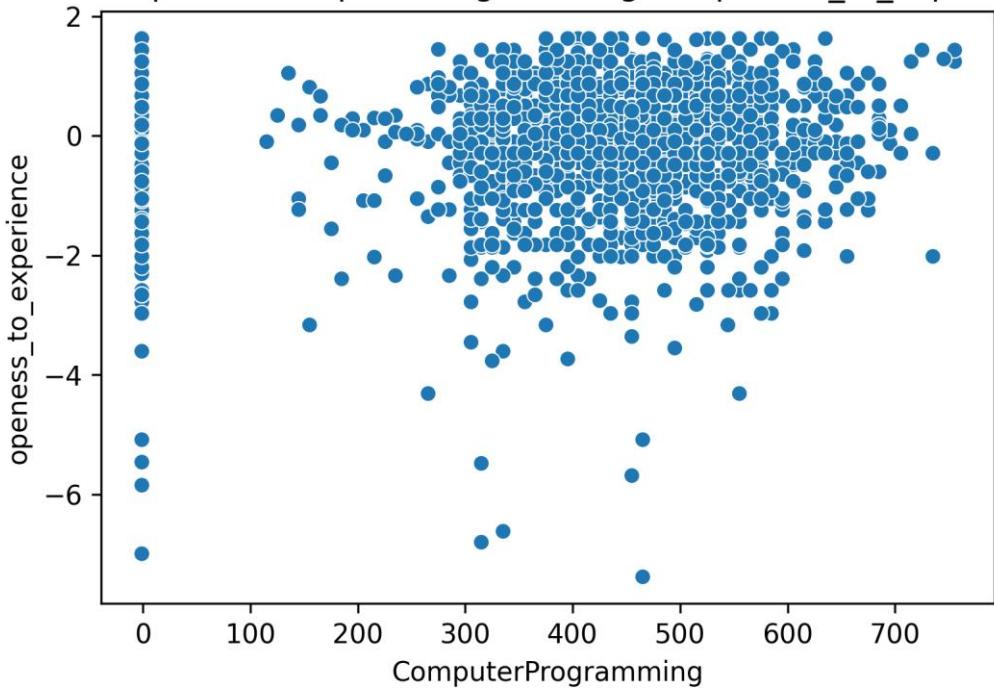
Scatter plot of ComputerProgramming vs MechanicalEngg



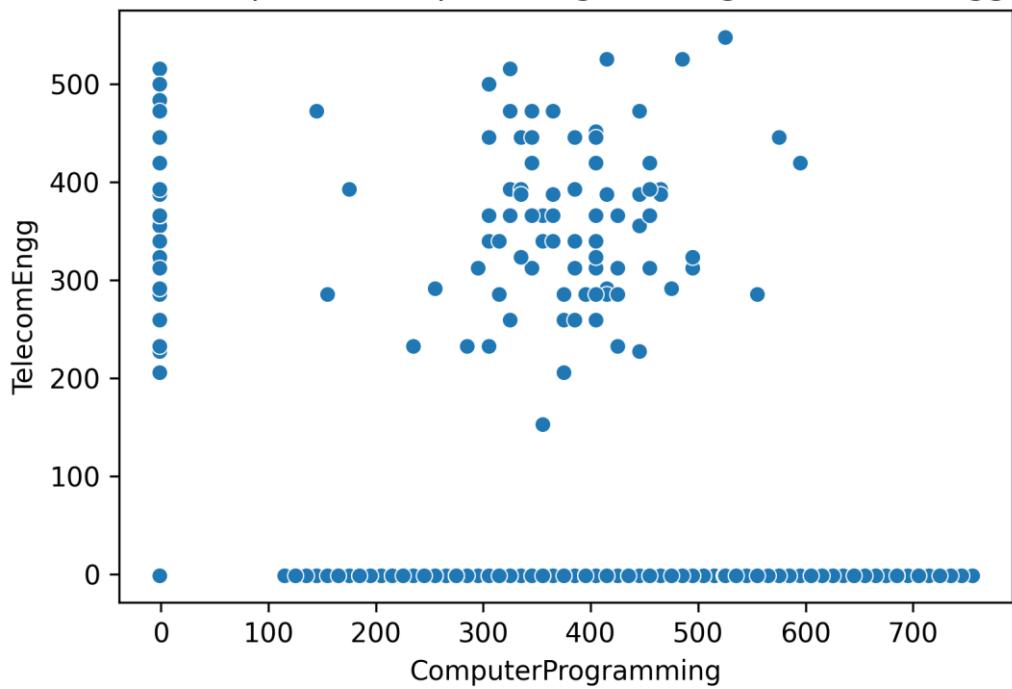
Scatter plot of ComputerProgramming vs nueroticism



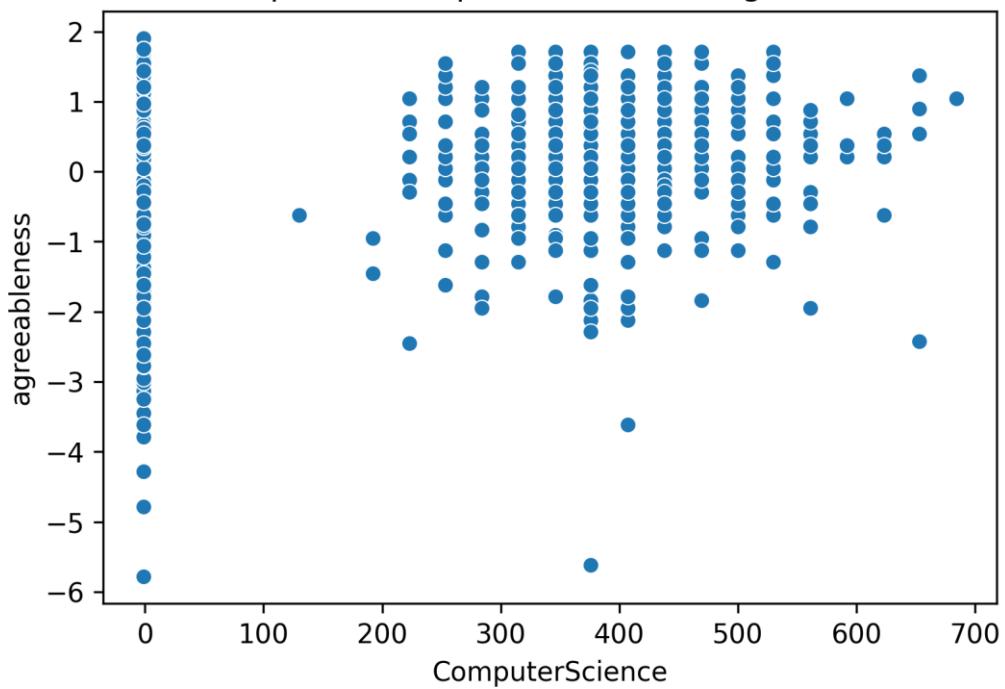
Scatter plot of ComputerProgramming vs openness_to_experience



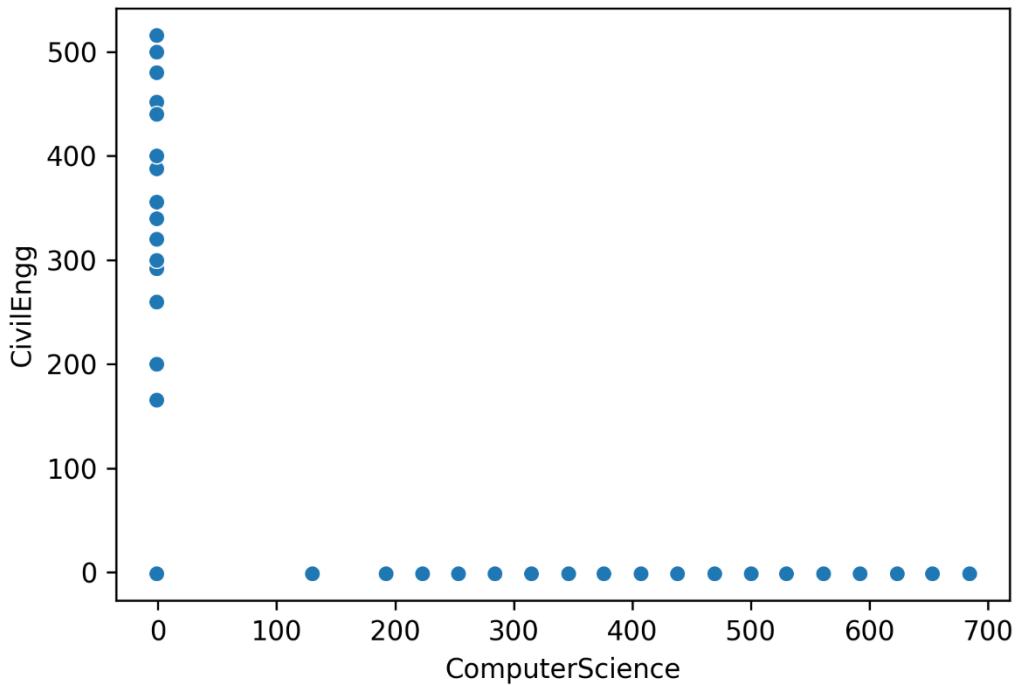
Scatter plot of ComputerProgramming vs TelecomEngg



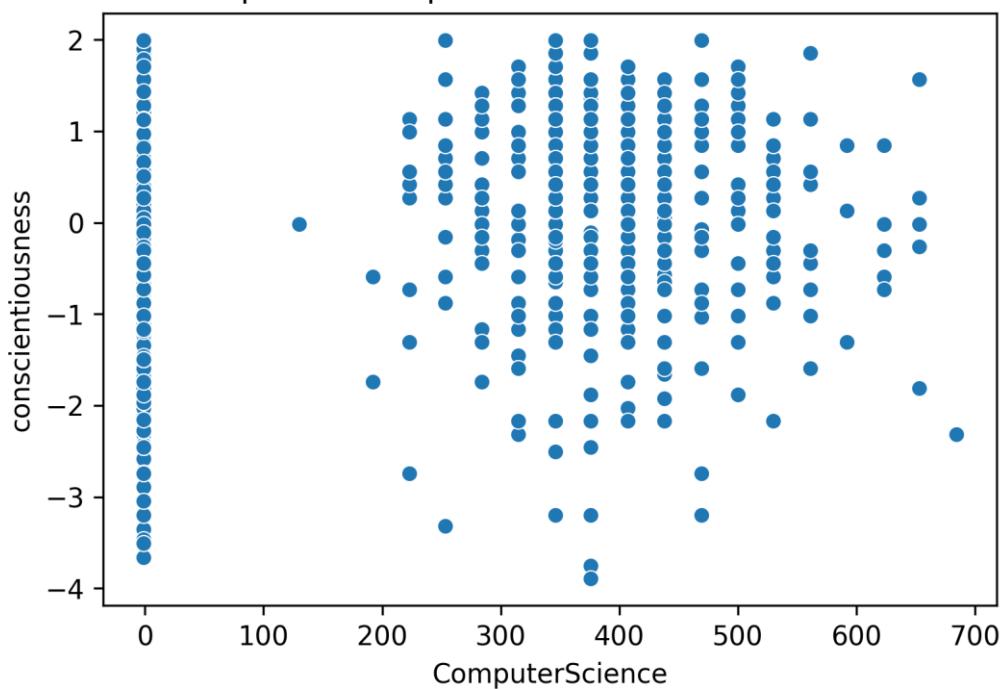
Scatter plot of ComputerScience vs agreeableness

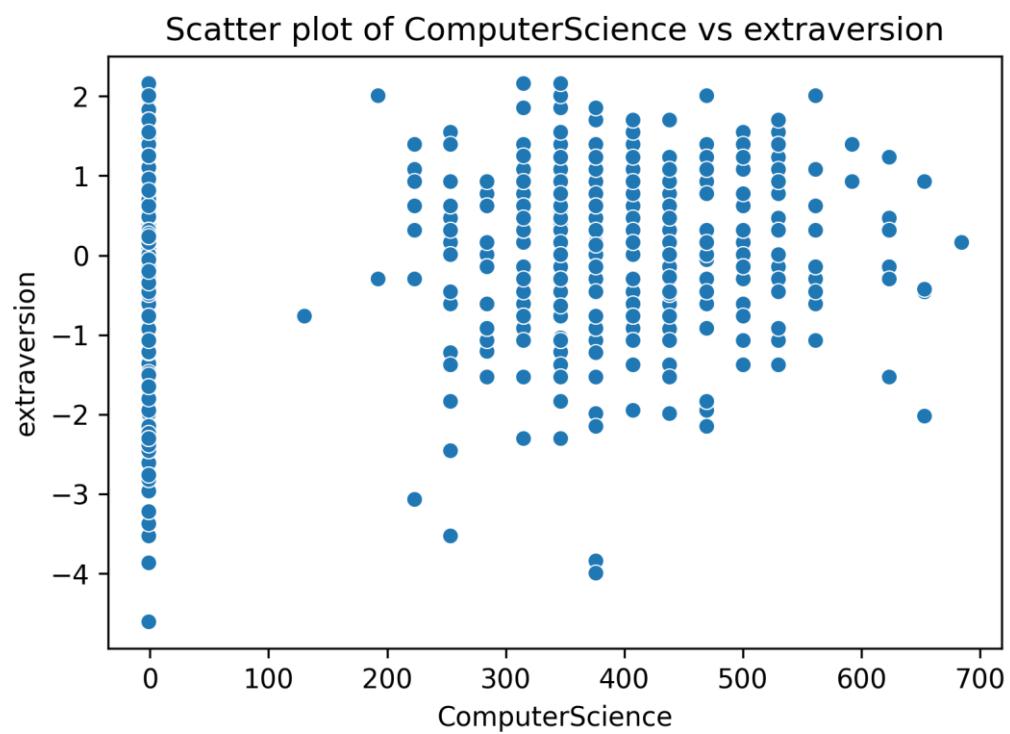
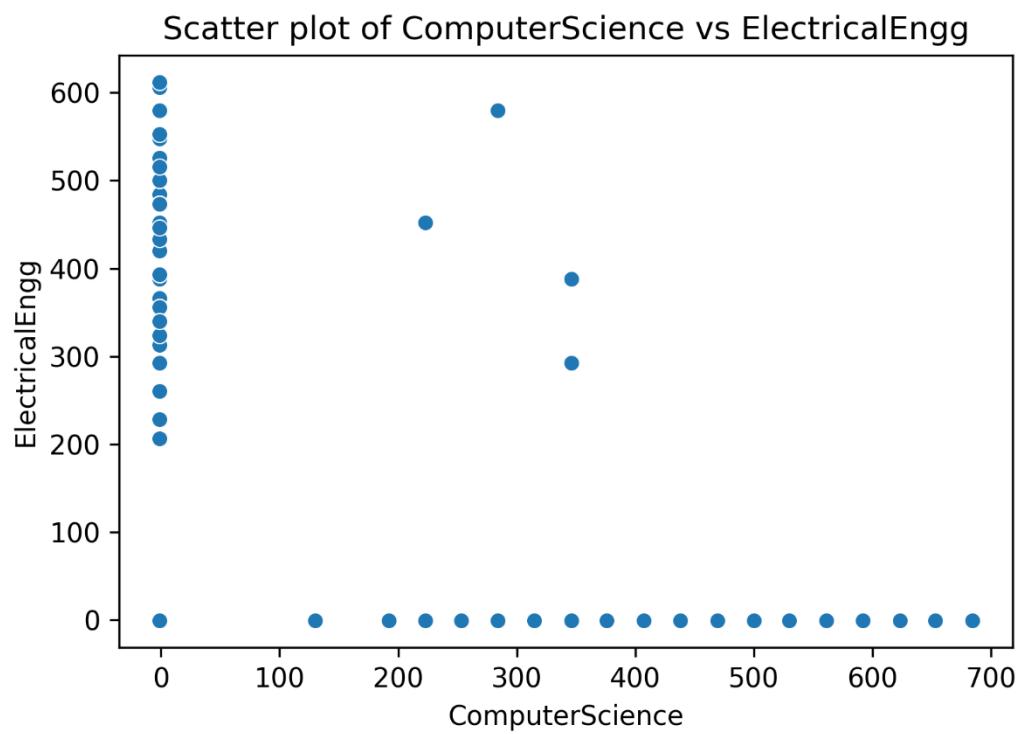


Scatter plot of ComputerScience vs CivilEngg

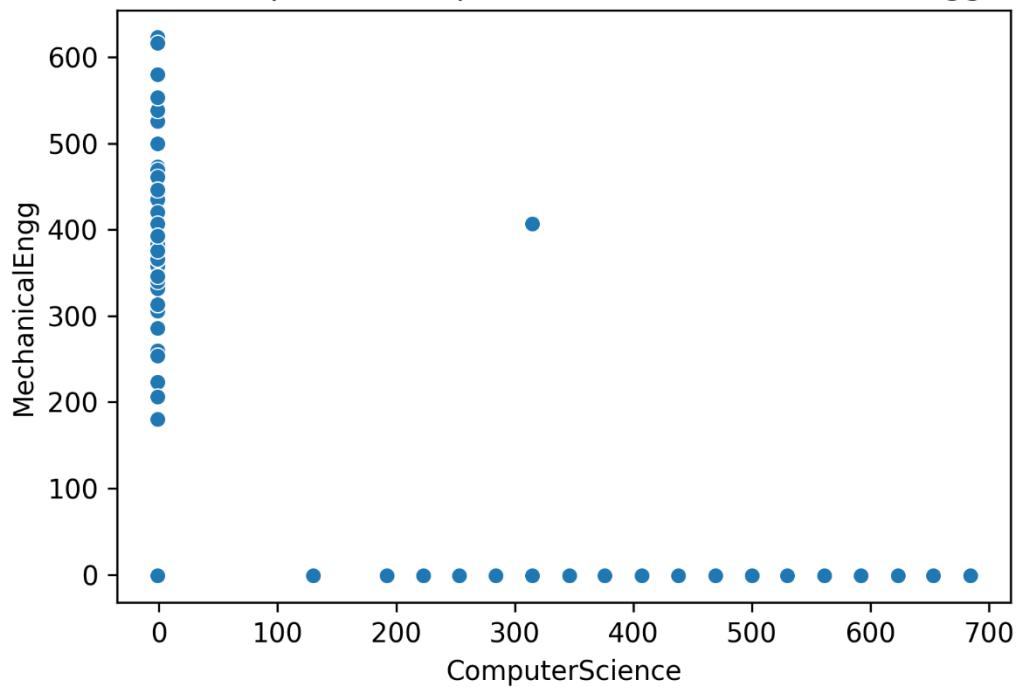


Scatter plot of ComputerScience vs conscientiousness

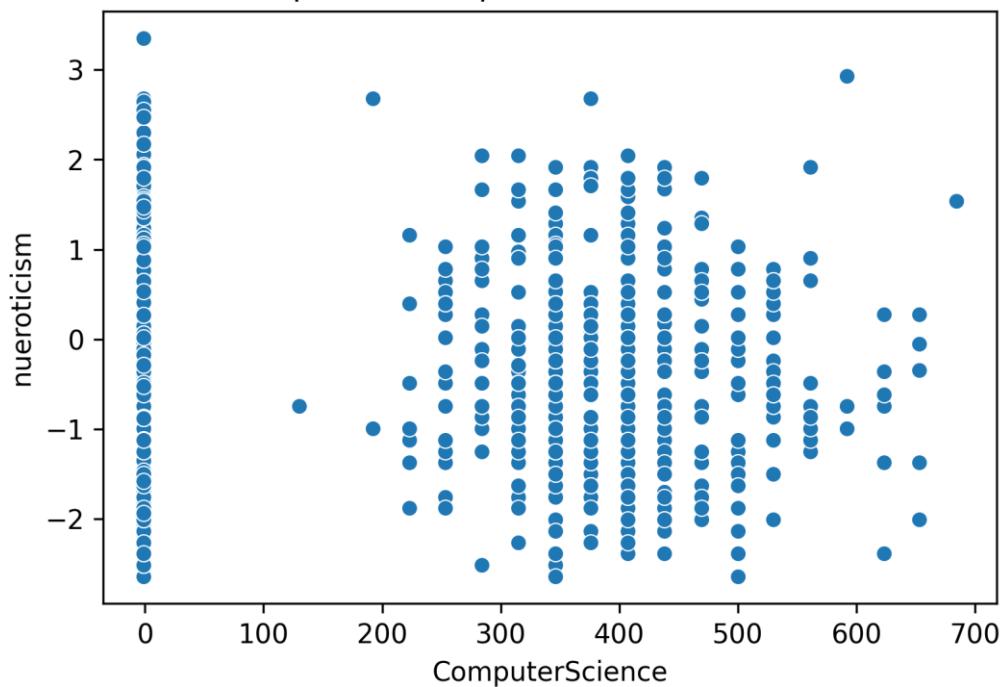


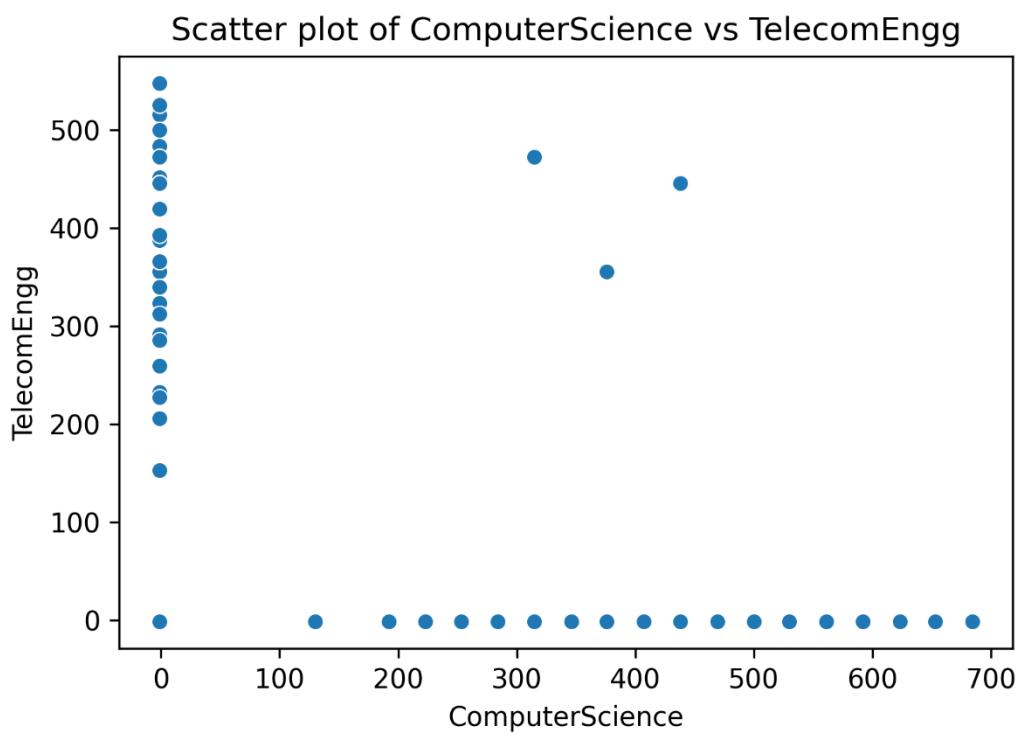
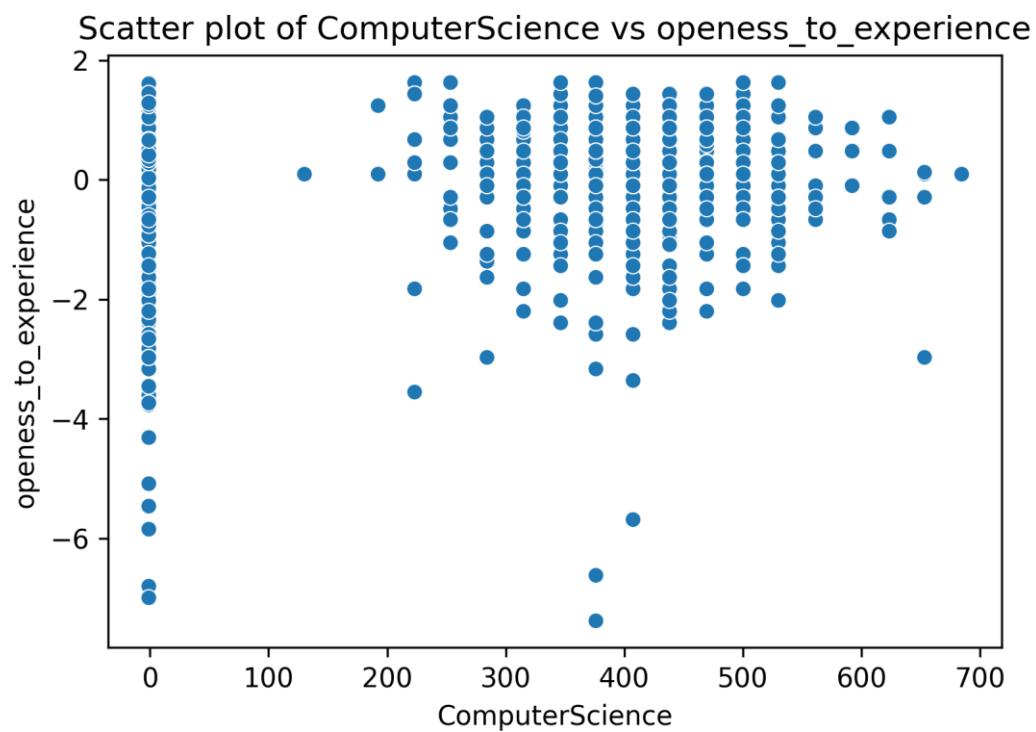


Scatter plot of ComputerScience vs MechanicalEngg

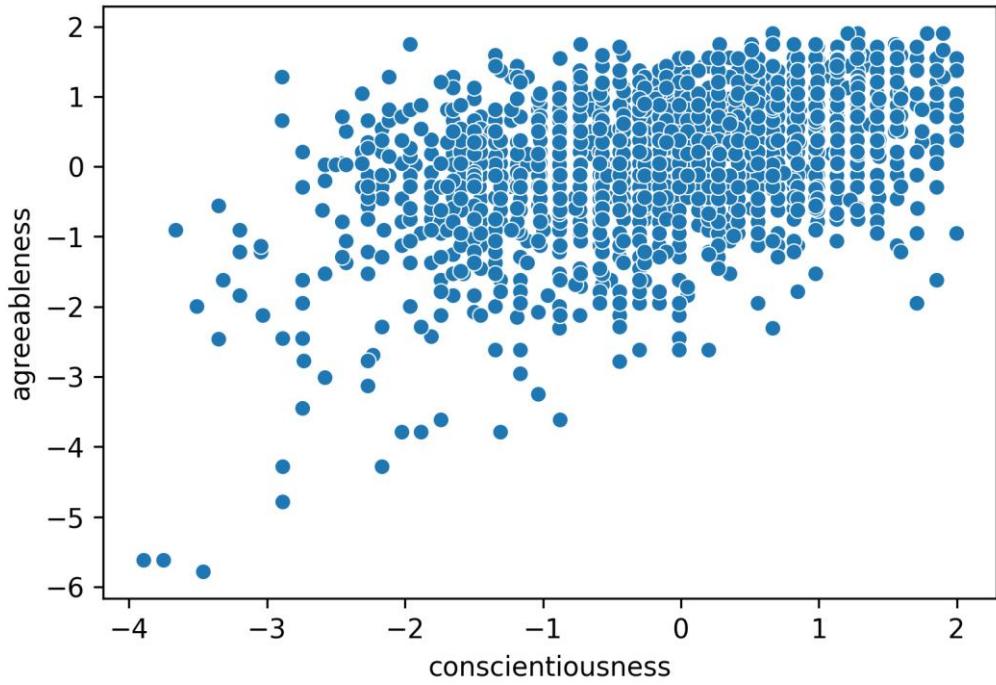


Scatter plot of ComputerScience vs nueroticism

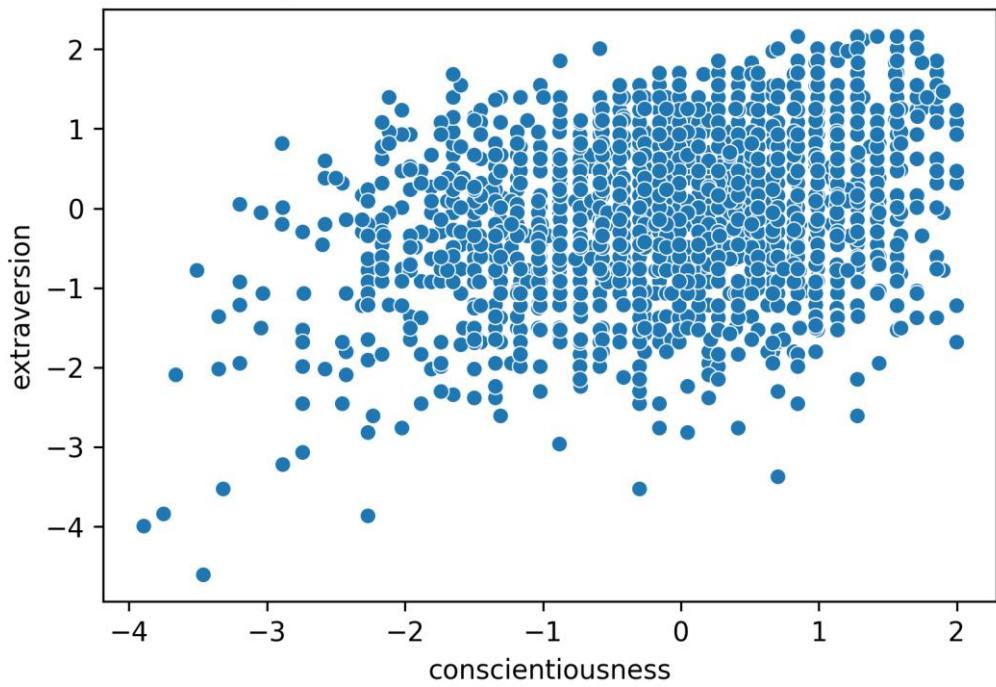




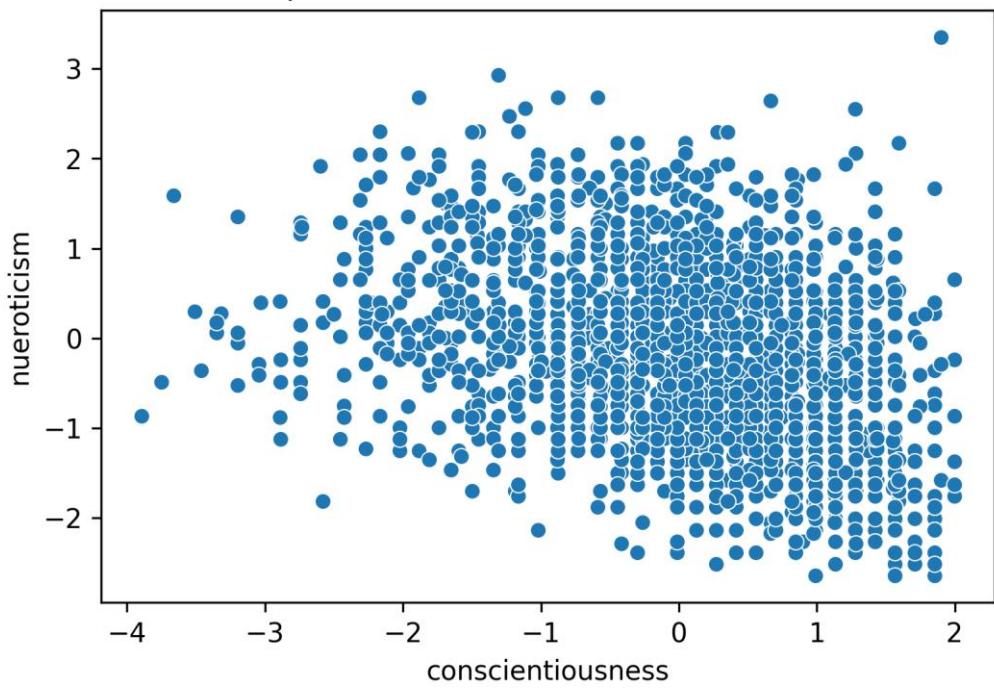
Scatter plot of conscientiousness vs agreeableness



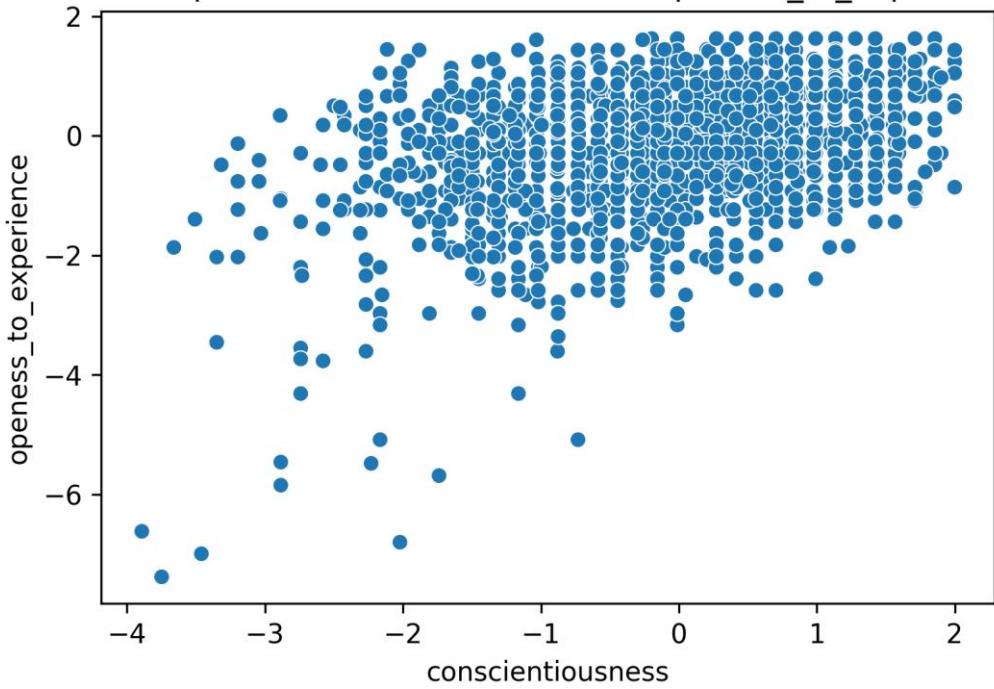
Scatter plot of conscientiousness vs extraversion



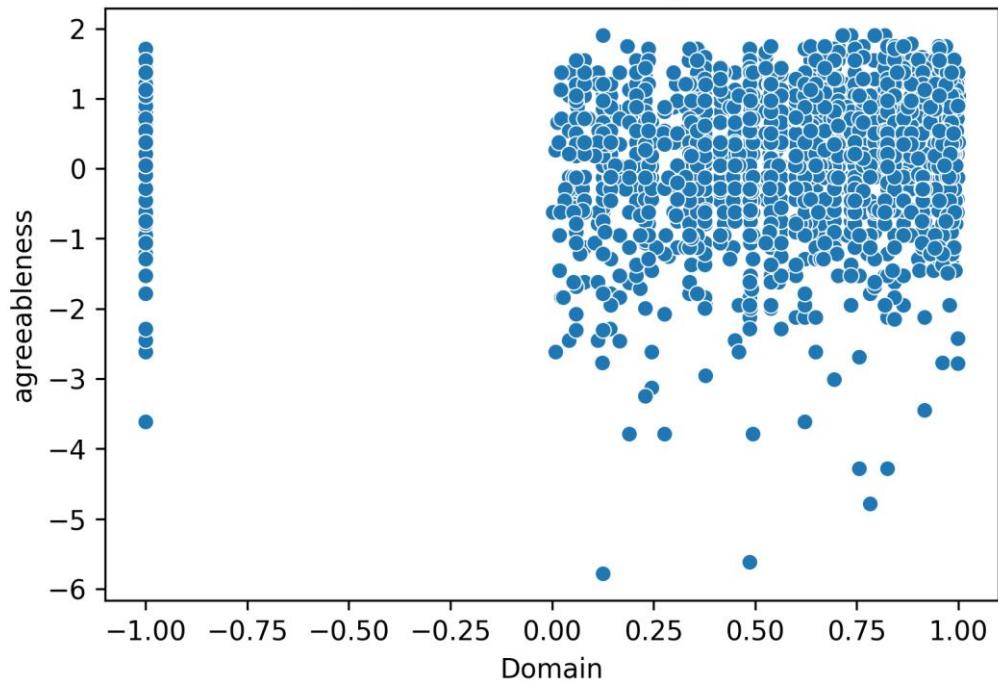
Scatter plot of conscientiousness vs nueroticism



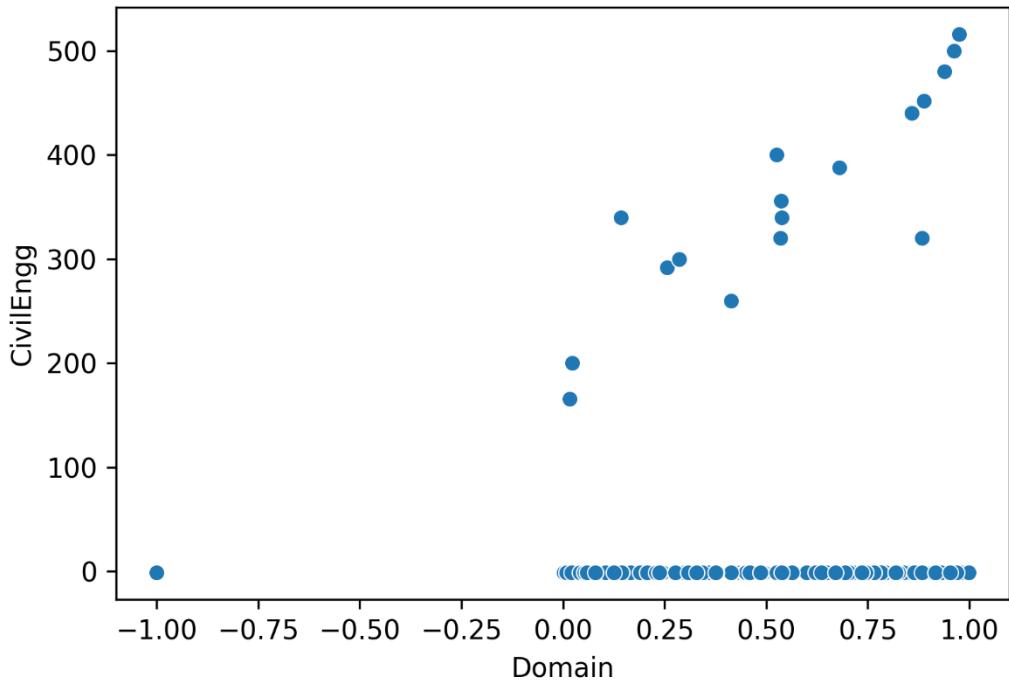
Scatter plot of conscientiousness vs openness_to_experience



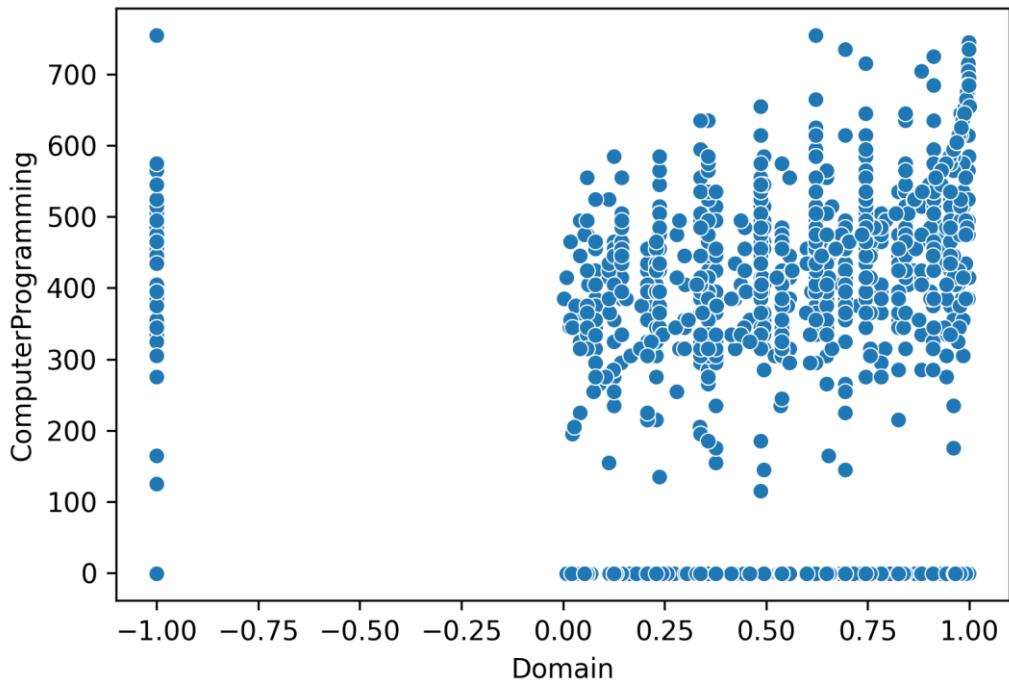
Scatter plot of Domain vs agreeableness



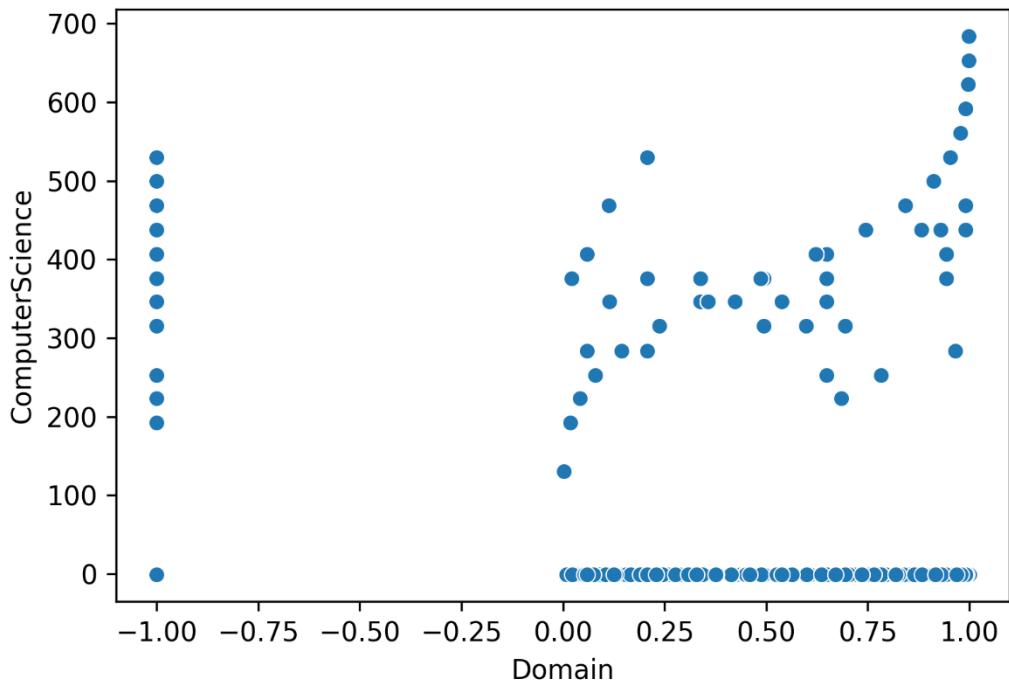
Scatter plot of Domain vs CivilEngg



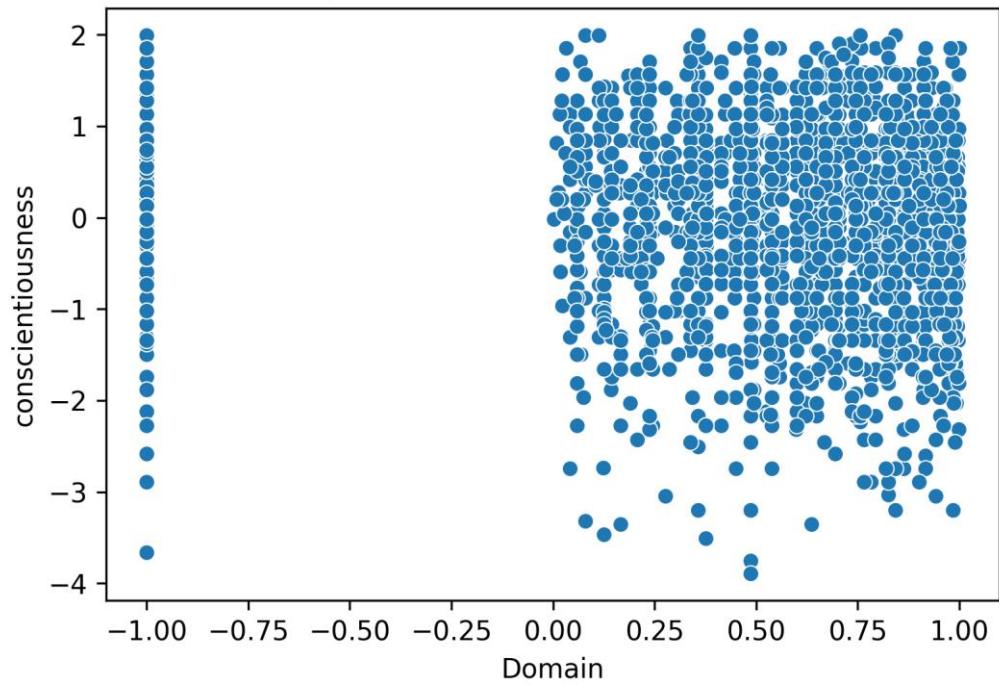
Scatter plot of Domain vs ComputerProgramming



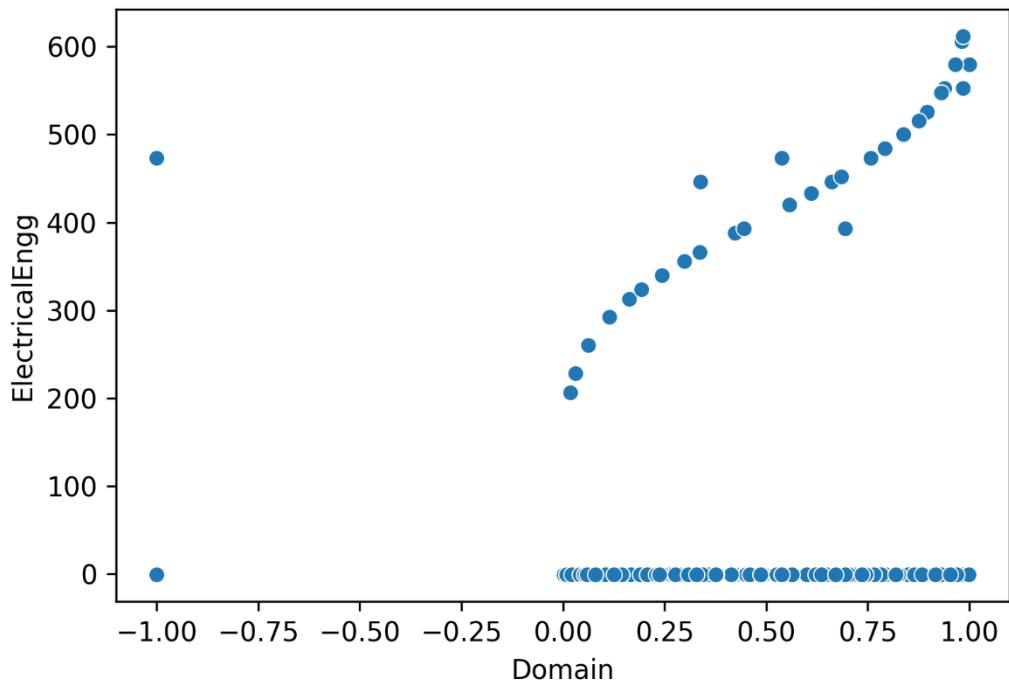
Scatter plot of Domain vs ComputerScience



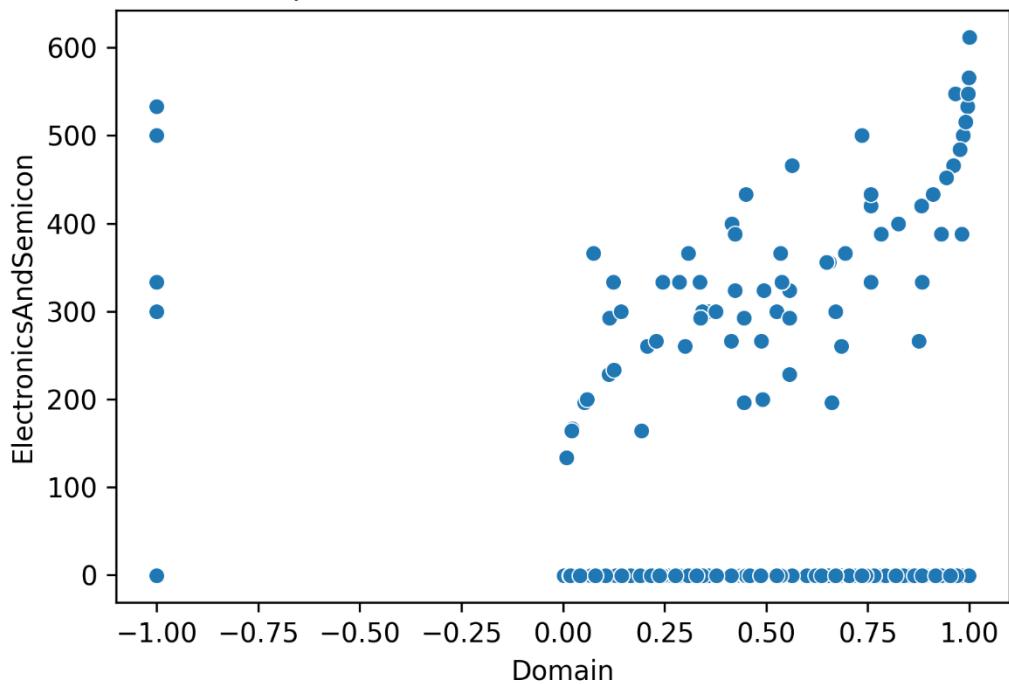
Scatter plot of Domain vs conscientiousness



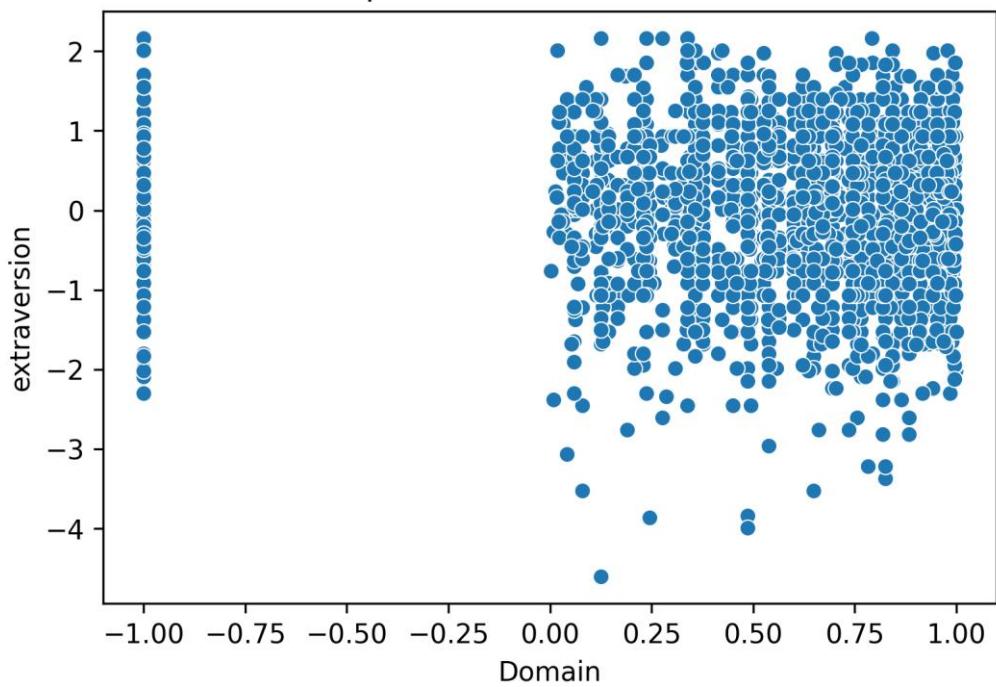
Scatter plot of Domain vs ElectricalEngg



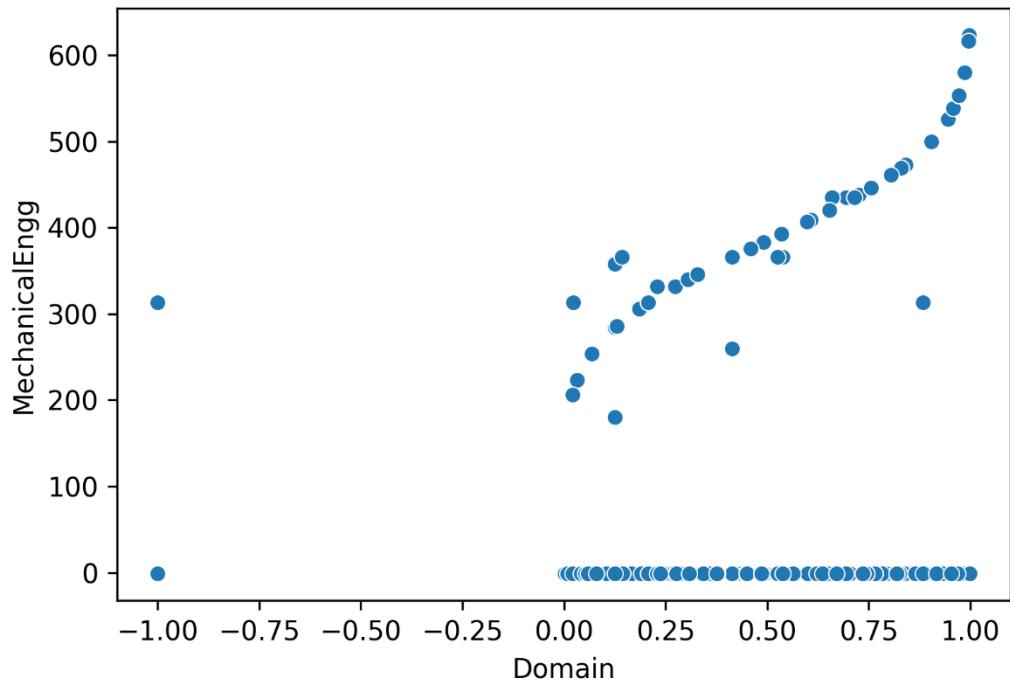
Scatter plot of Domain vs ElectronicsAndSemicon



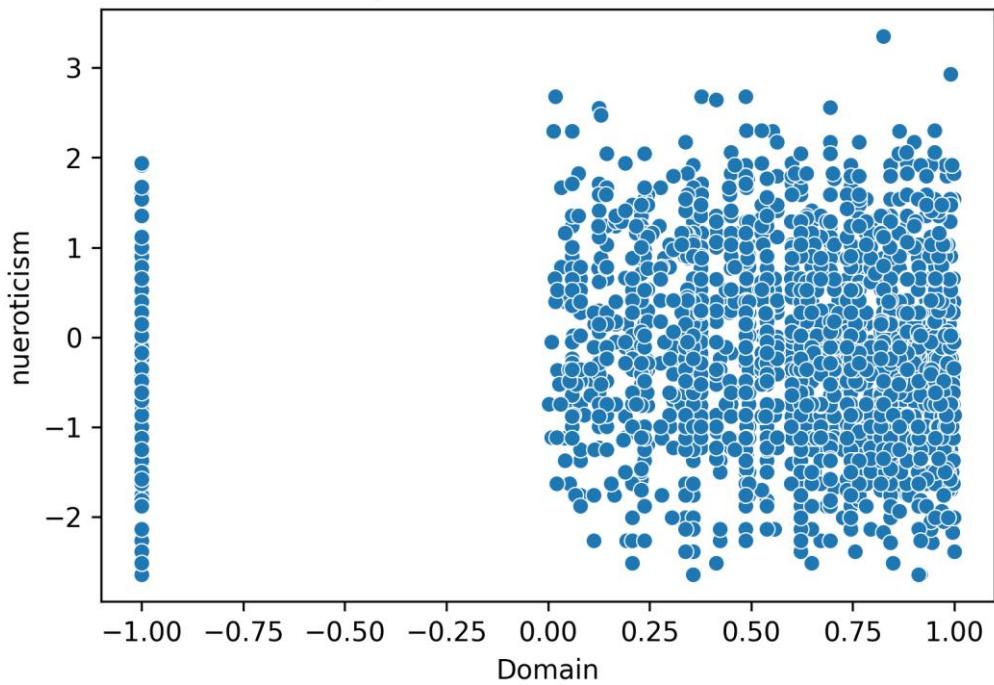
Scatter plot of Domain vs extraversion



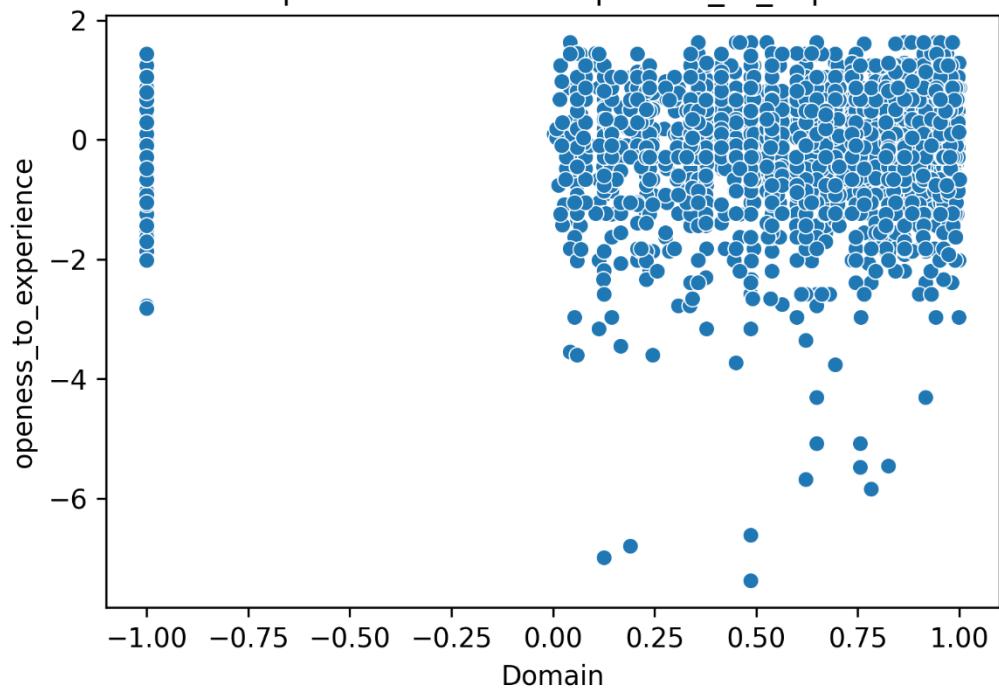
Scatter plot of Domain vs MechanicalEngg



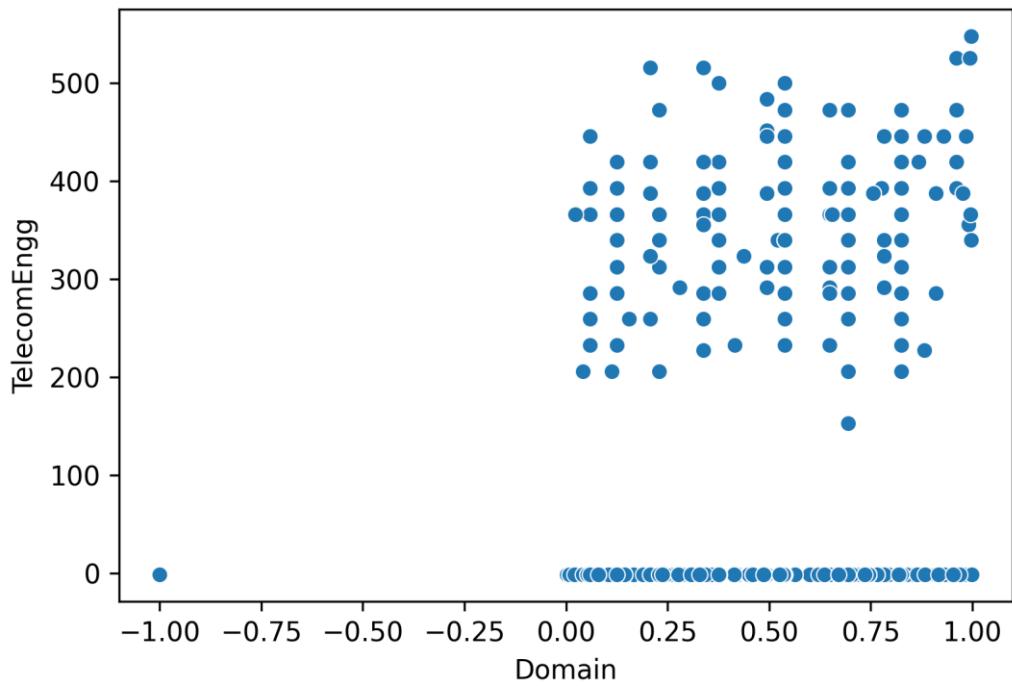
Scatter plot of Domain vs nueroticism



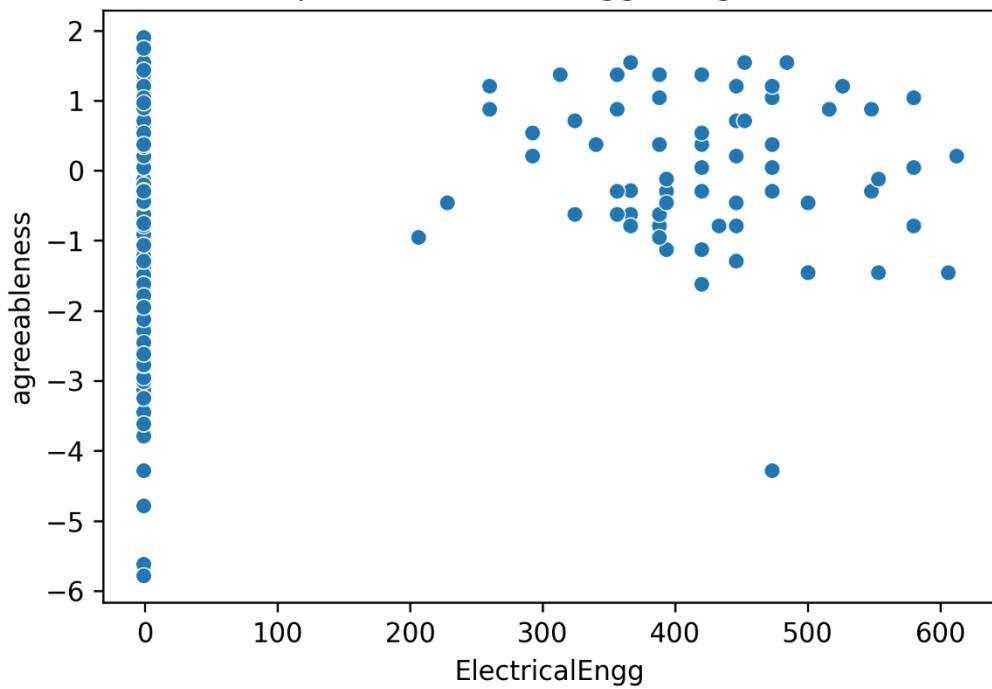
Scatter plot of Domain vs openness_to_experience



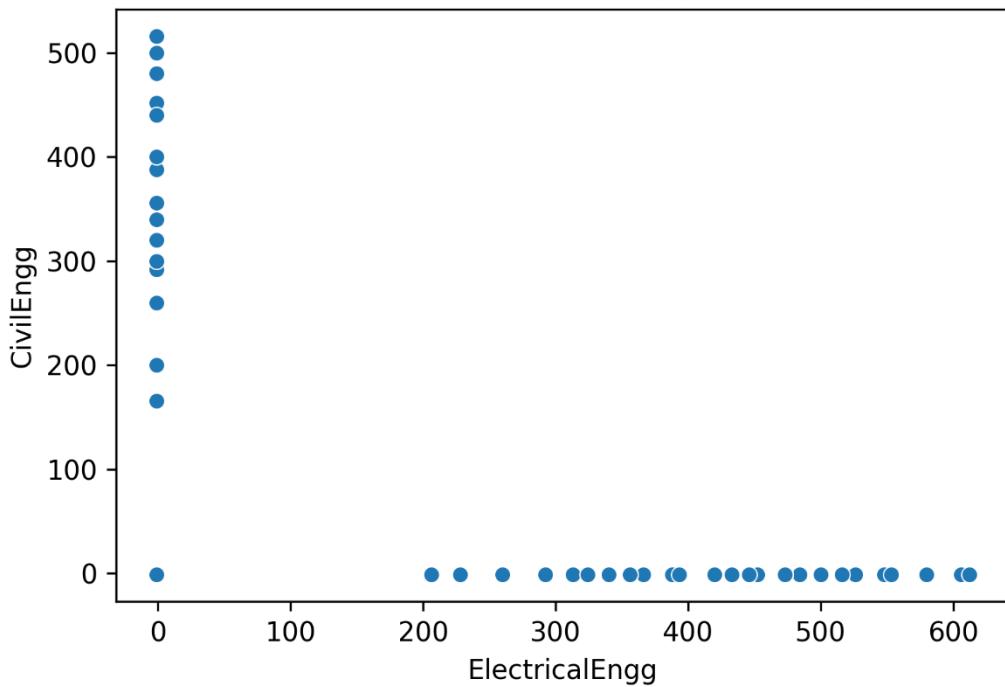
Scatter plot of Domain vs TelecomEngg



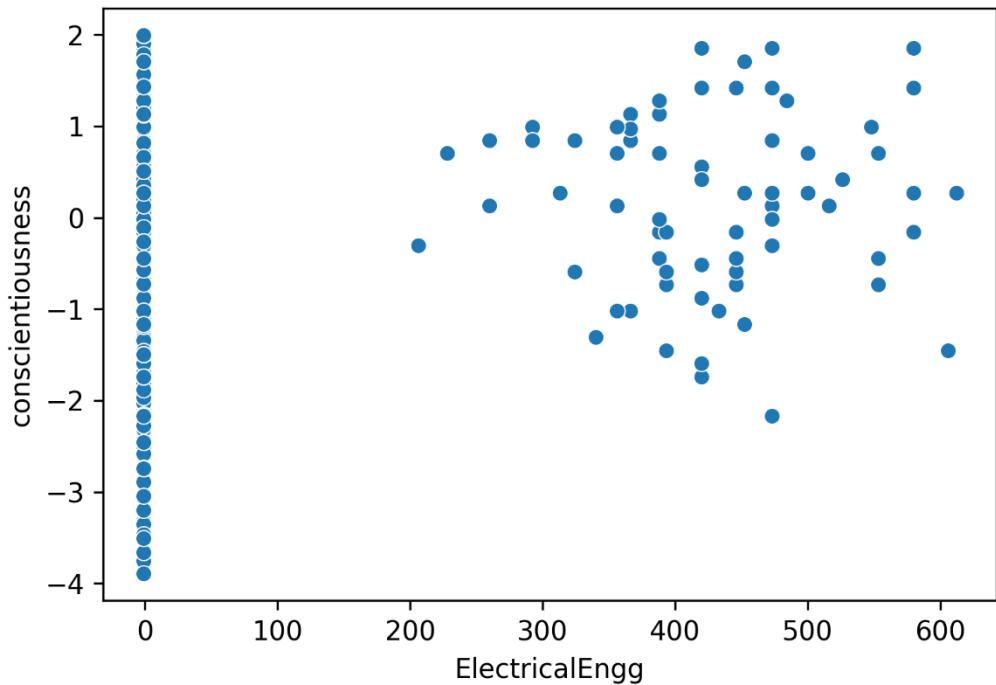
Scatter plot of ElectricalEngg vs agreeableness



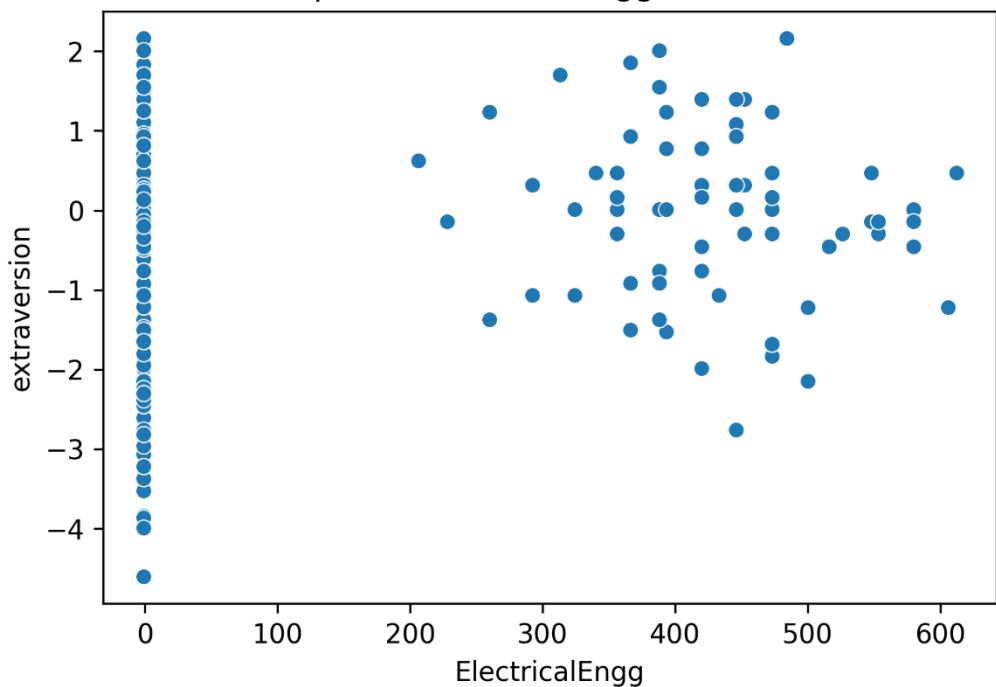
Scatter plot of ElectricalEngg vs CivilEngg



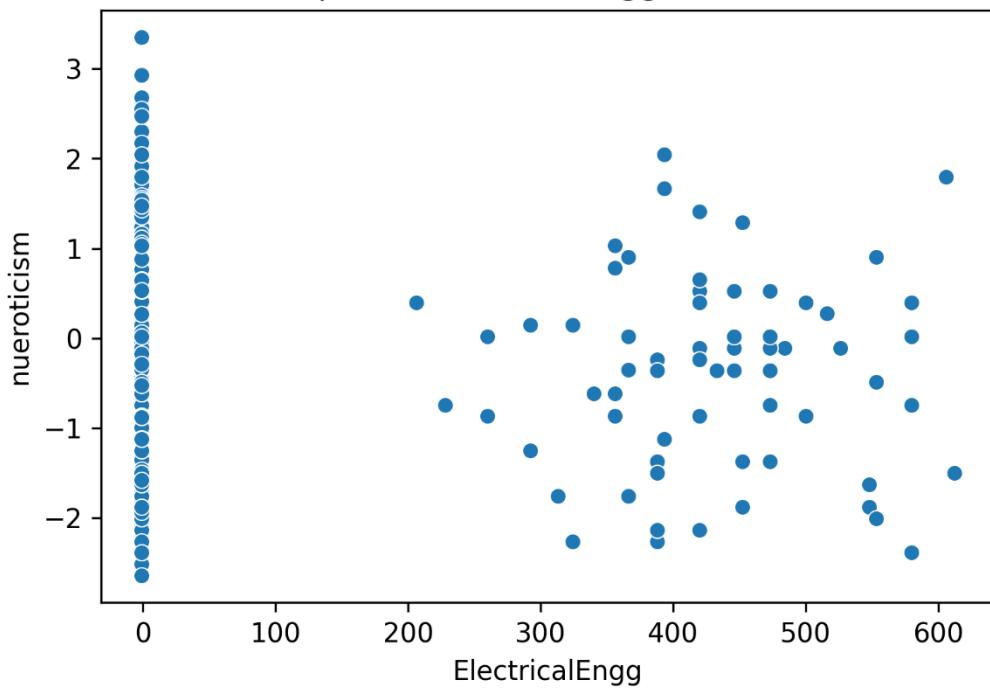
Scatter plot of ElectricalEngg vs conscientiousness



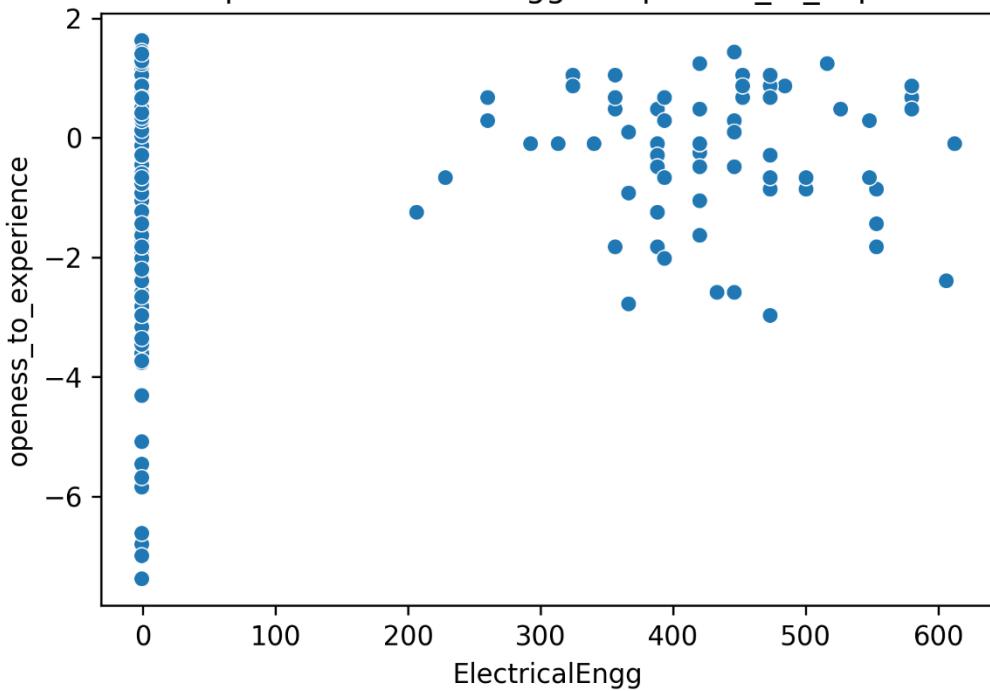
Scatter plot of ElectricalEngg vs extraversion



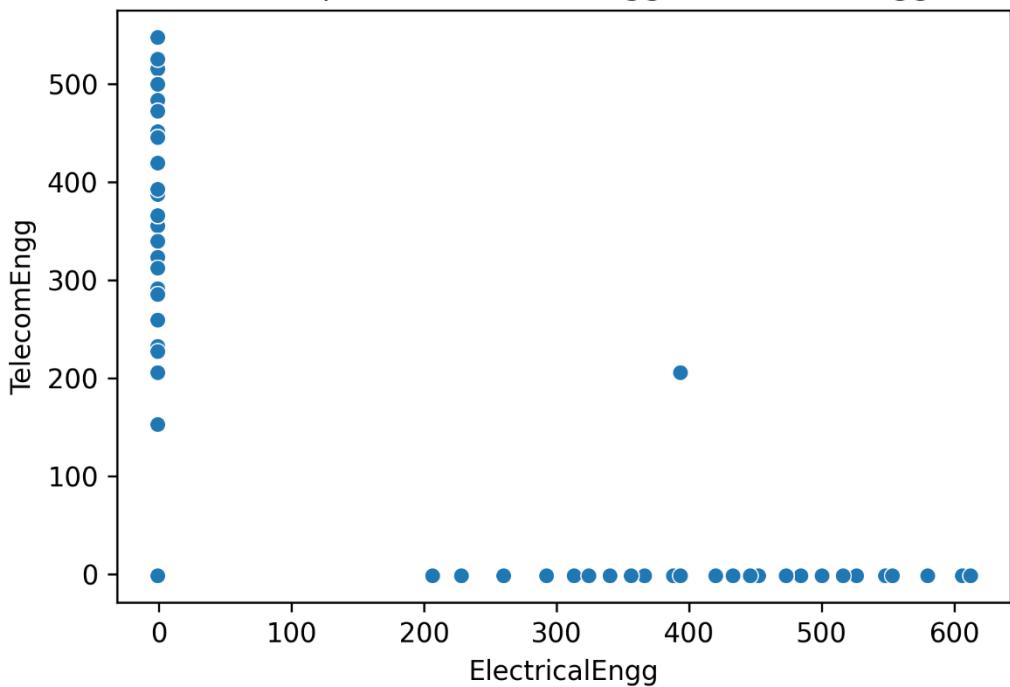
Scatter plot of ElectricalEngg vs nueroticism



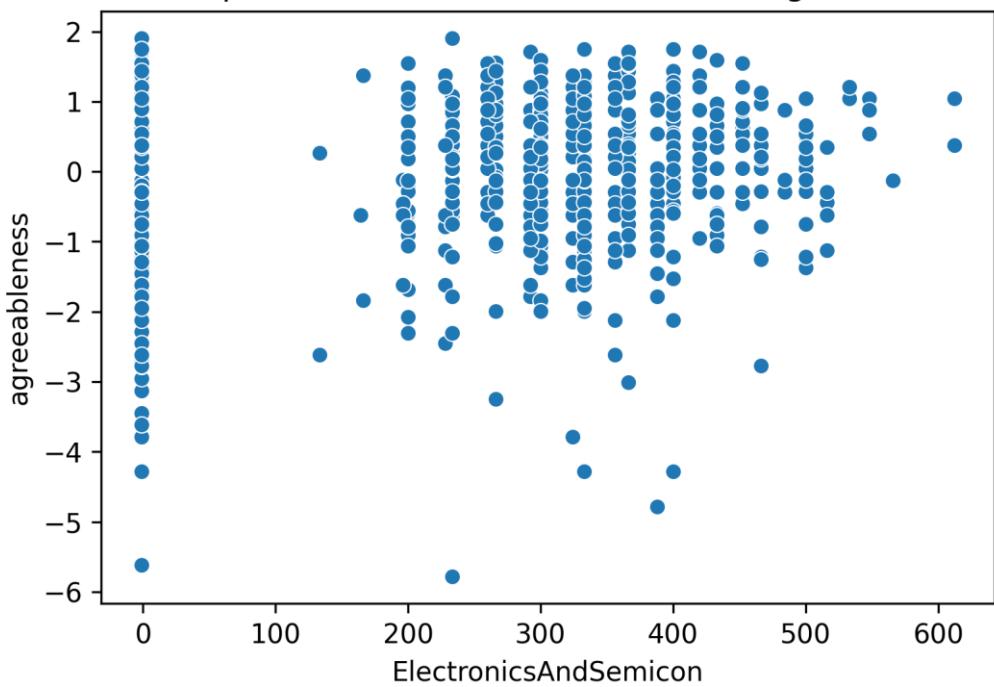
Scatter plot of ElectricalEngg vs openness_to_experience



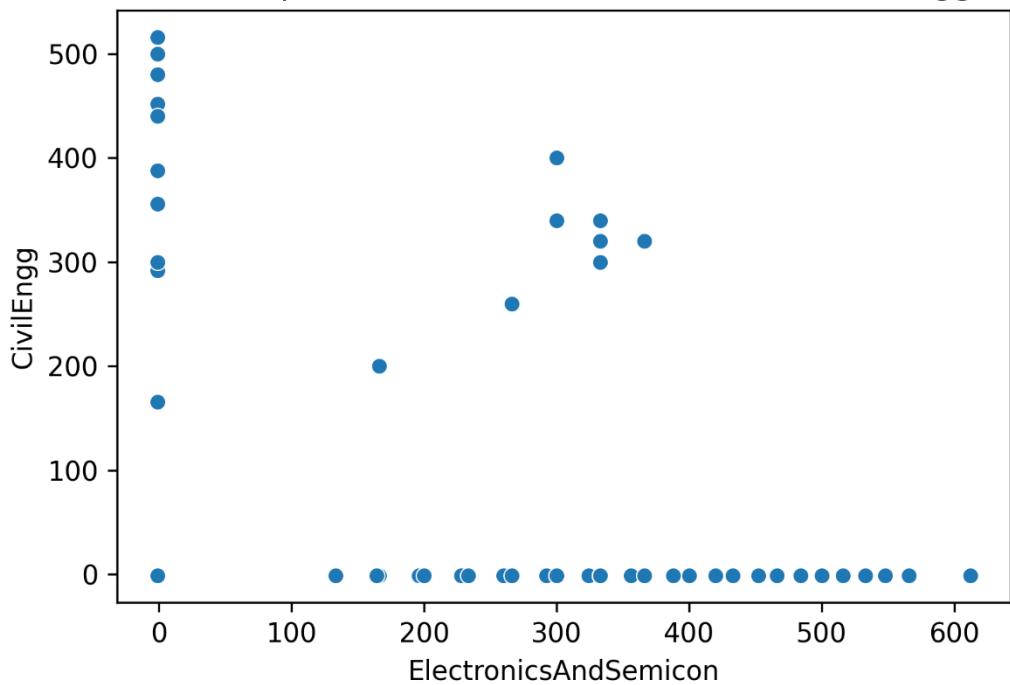
Scatter plot of ElectricalEngg vs TelecomEngg



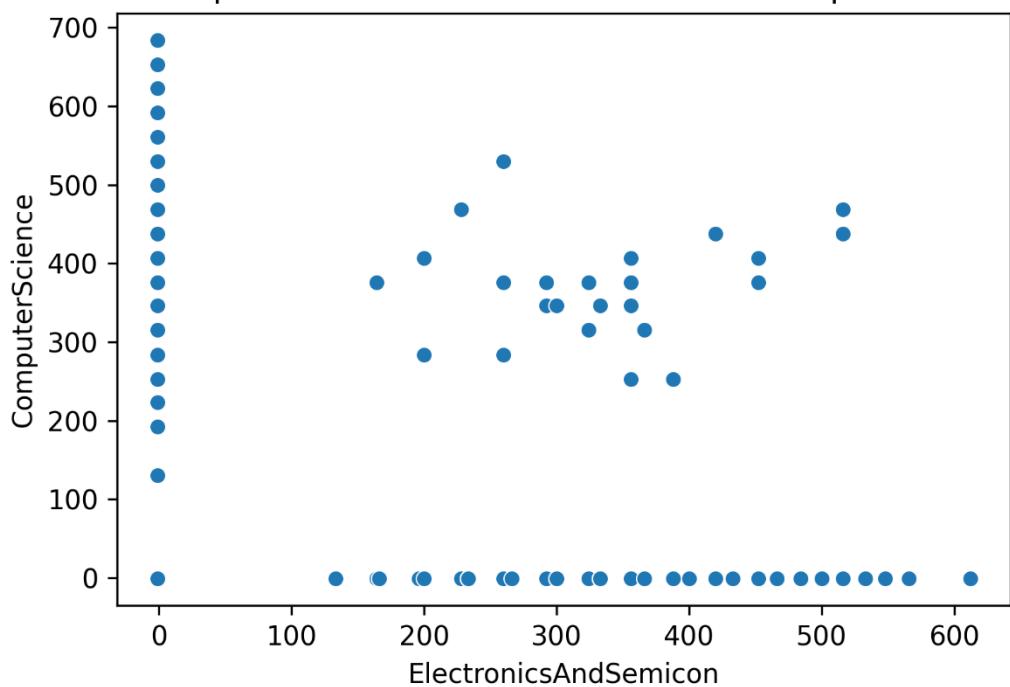
Scatter plot of ElectronicsAndSemicon vs agreeableness



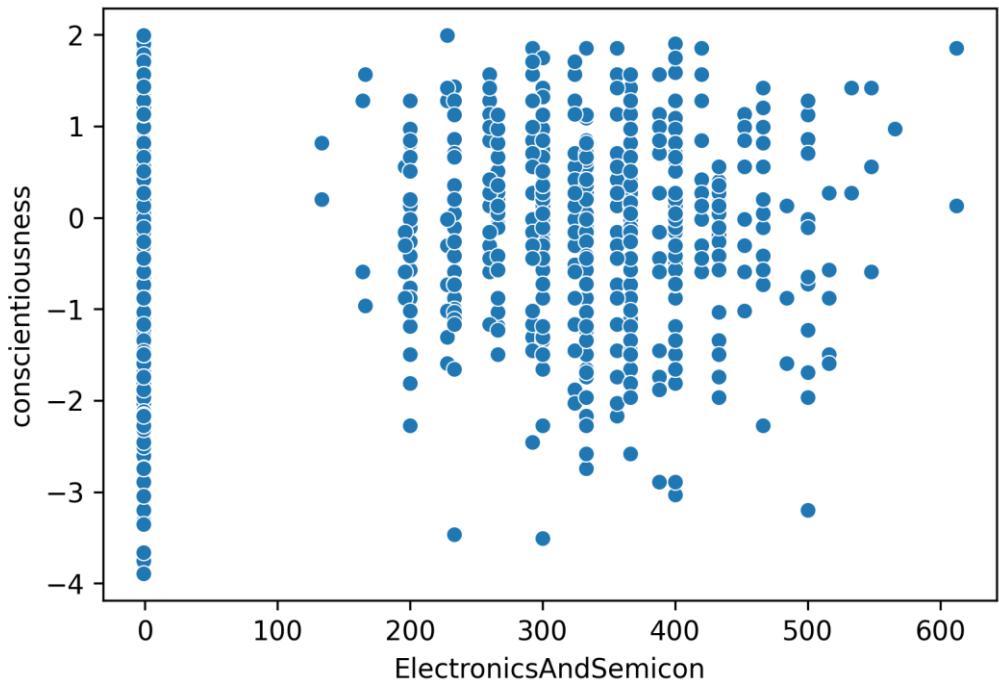
Scatter plot of ElectronicsAndSemicon vs CivilEngg



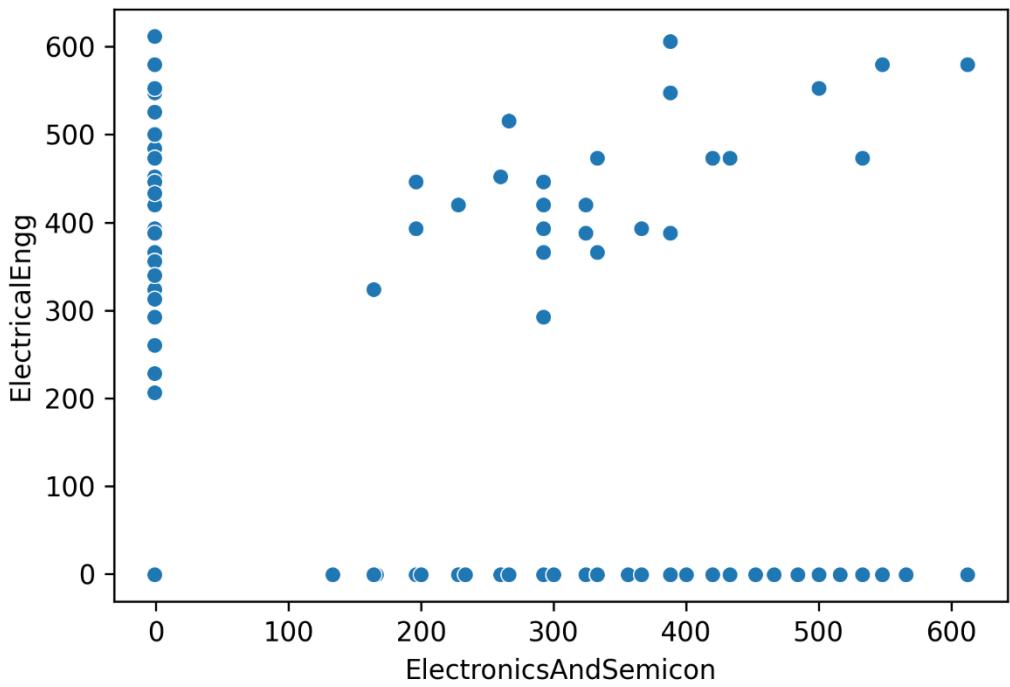
Scatter plot of ElectronicsAndSemicon vs ComputerScience



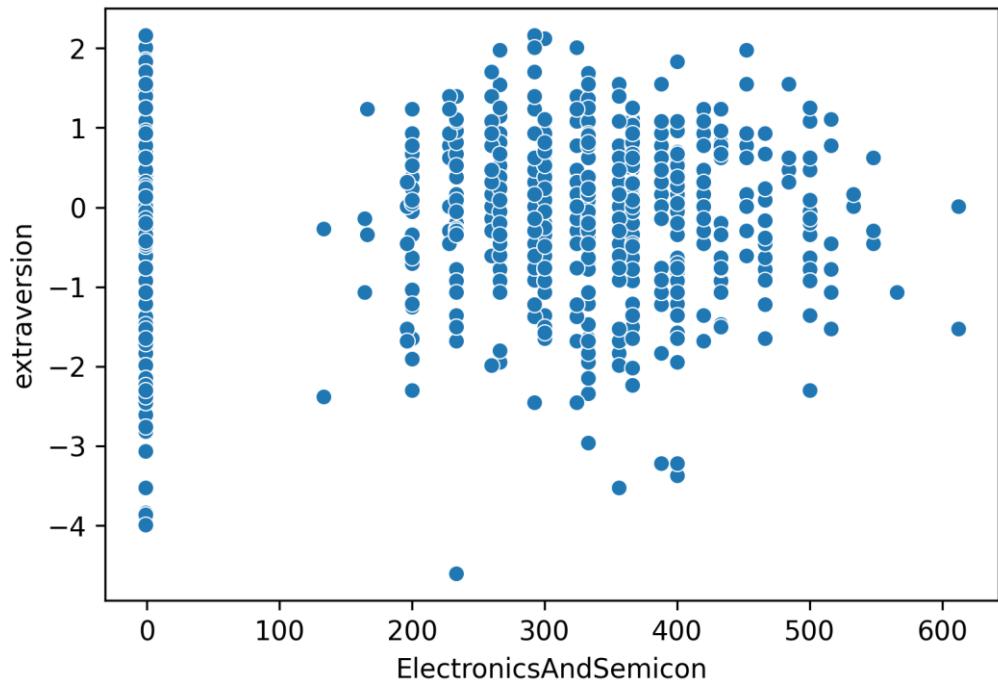
Scatter plot of ElectronicsAndSemicon vs conscientiousness



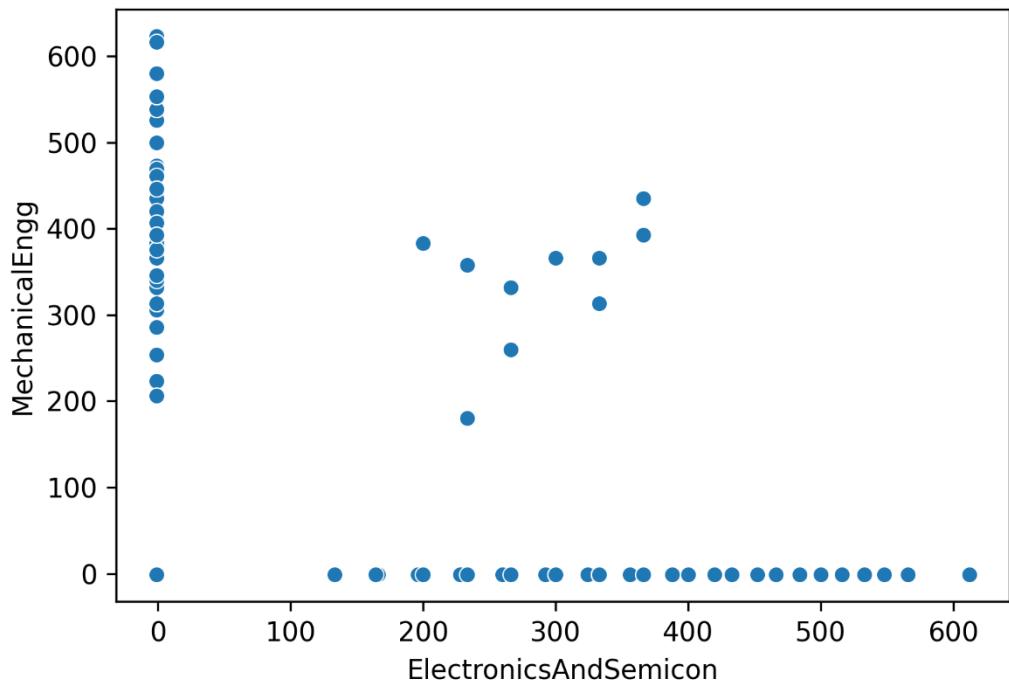
Scatter plot of ElectronicsAndSemicon vs ElectricalEngg



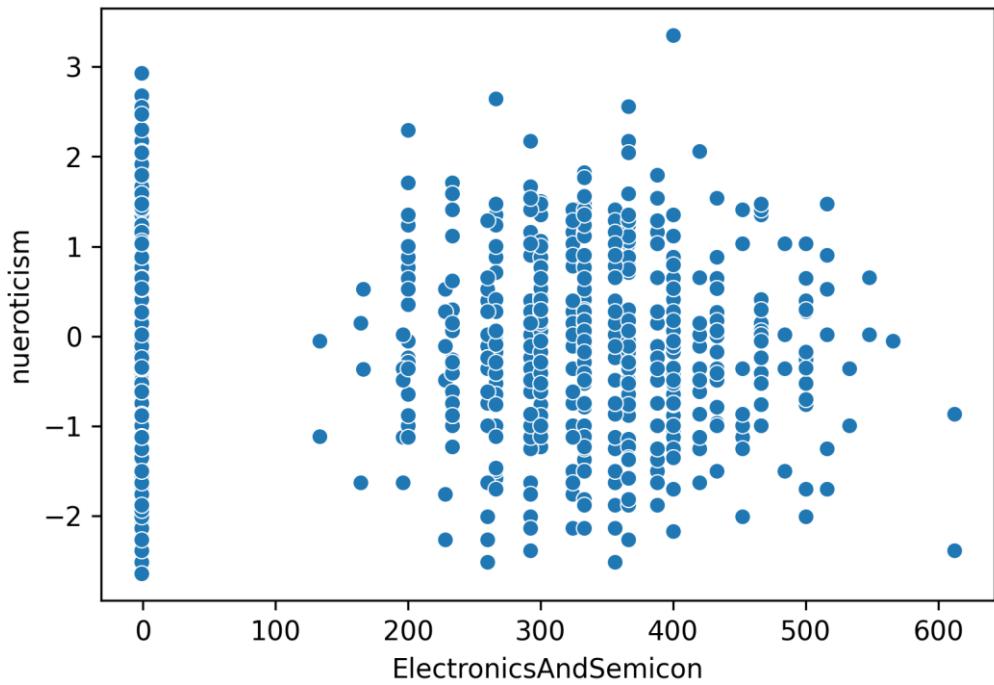
Scatter plot of ElectronicsAndSemicon vs extraversion



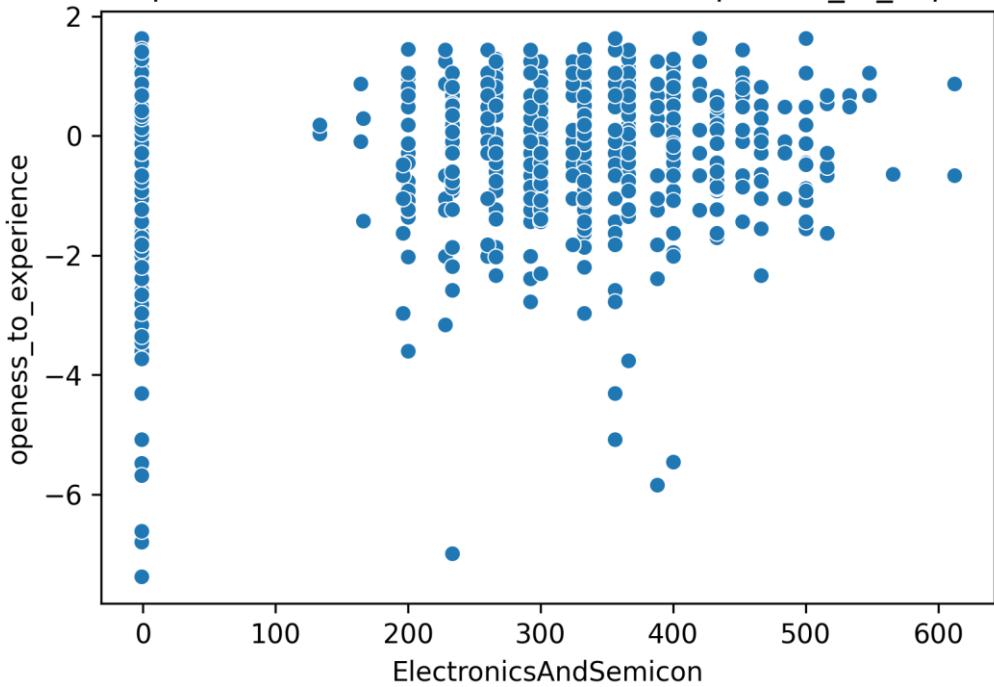
Scatter plot of ElectronicsAndSemicon vs MechanicalEngg



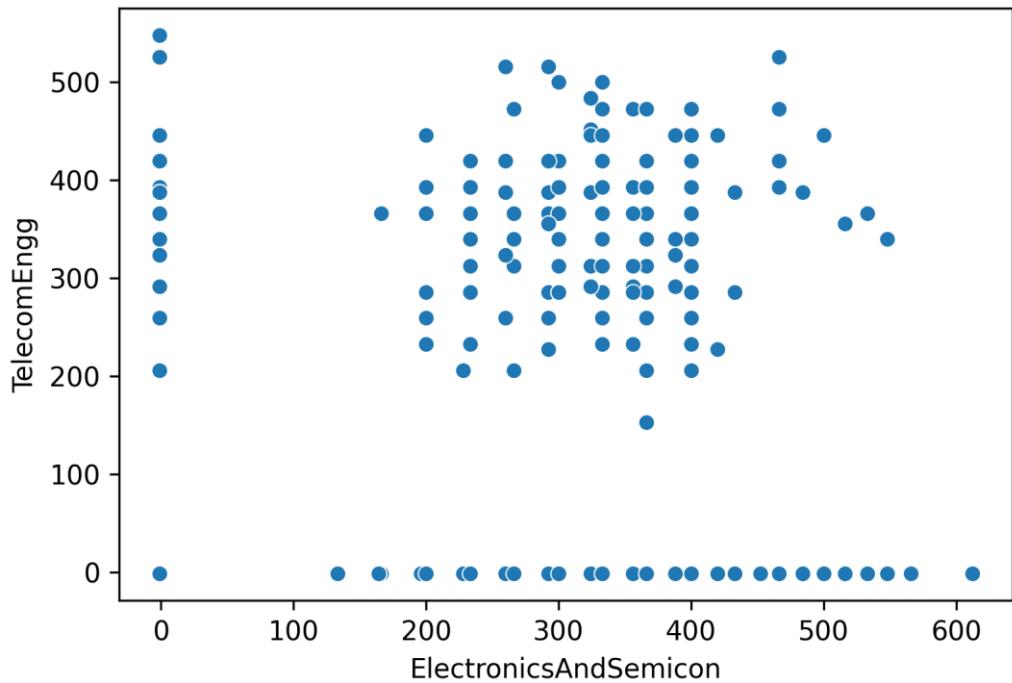
Scatter plot of ElectronicsAndSemicon vs nueroticism



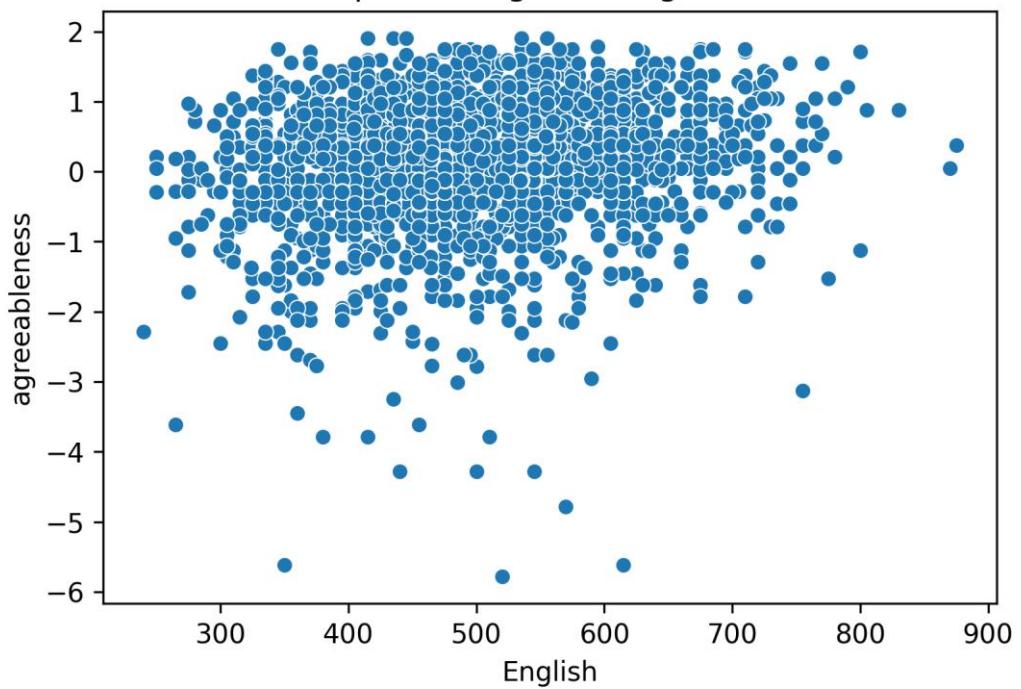
Scatter plot of ElectronicsAndSemicon vs openness_to_experience



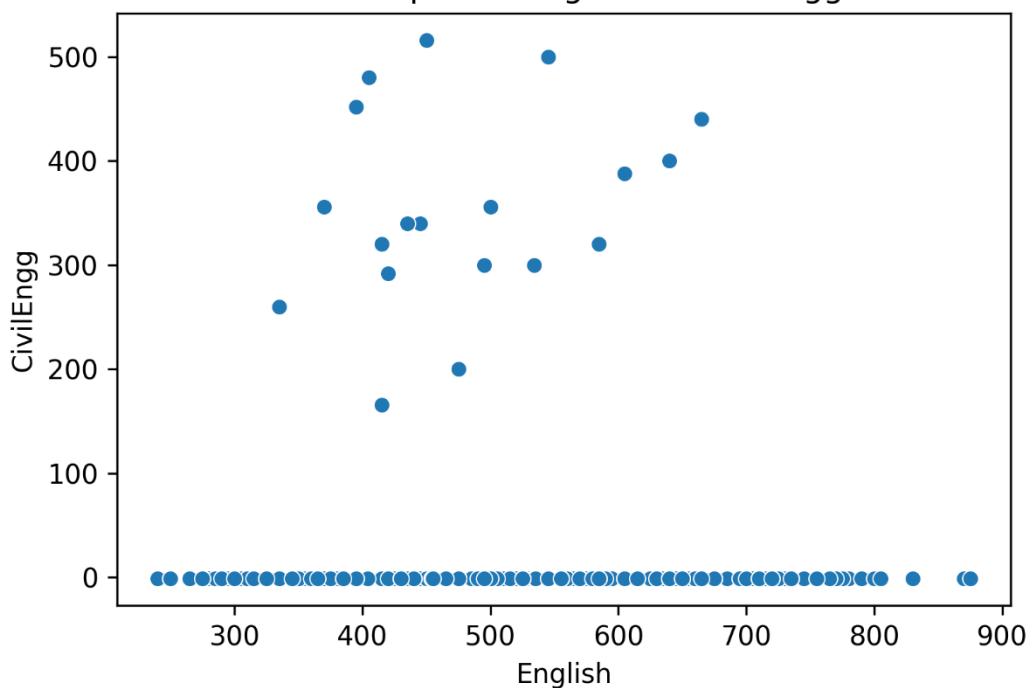
Scatter plot of ElectronicsAndSemicon vs TelecomEngg



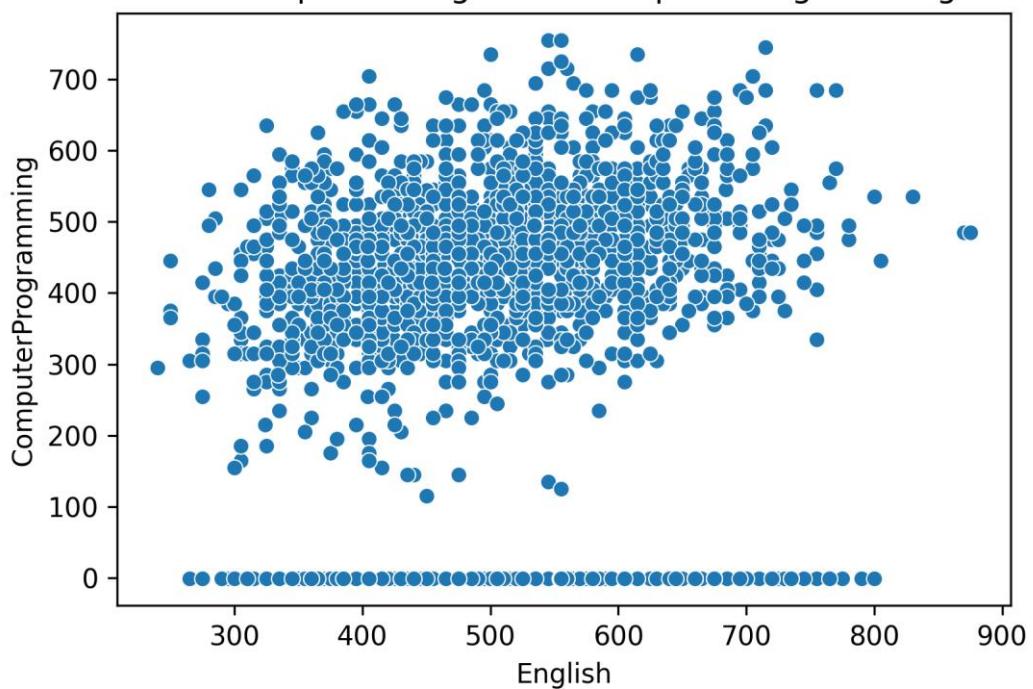
Scatter plot of English vs agreeableness

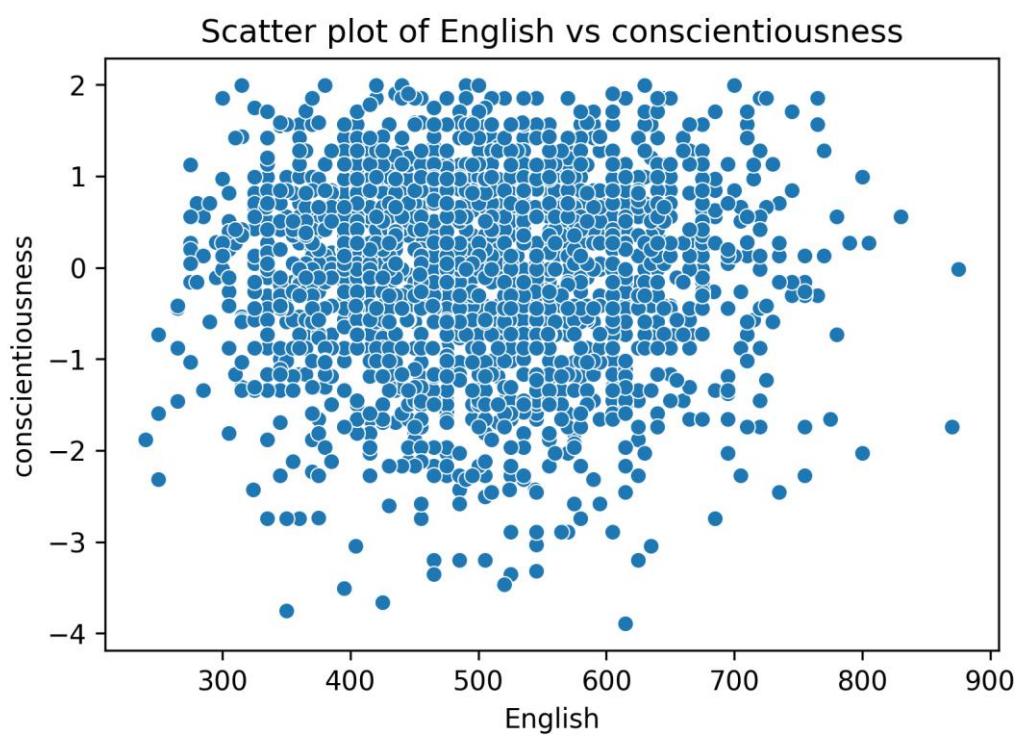
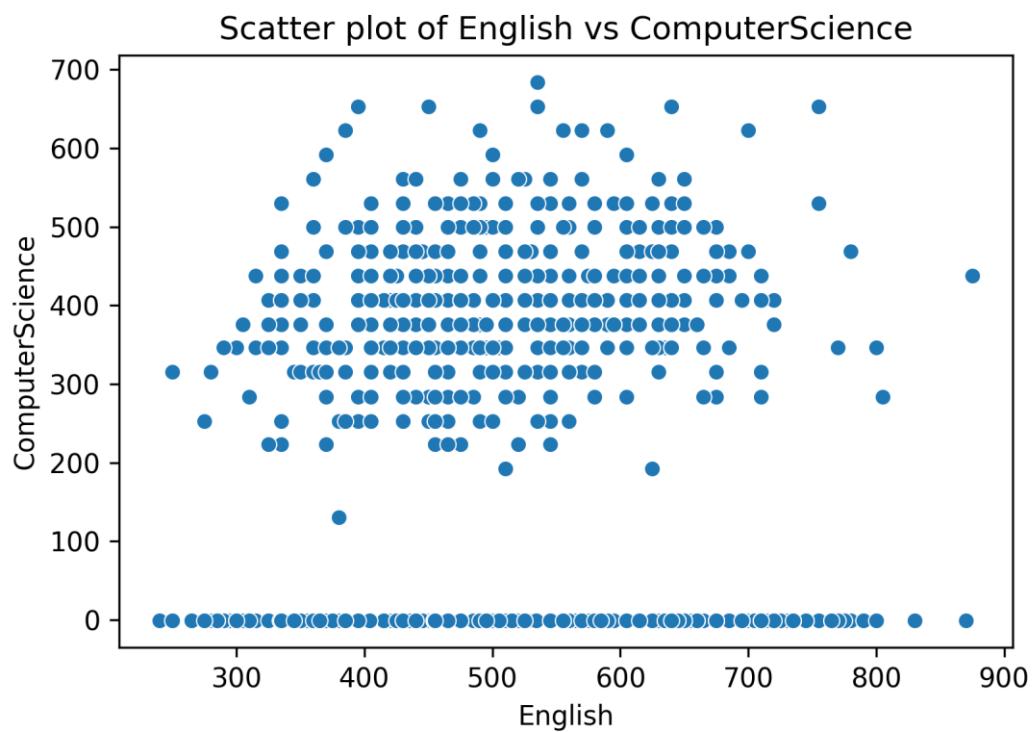


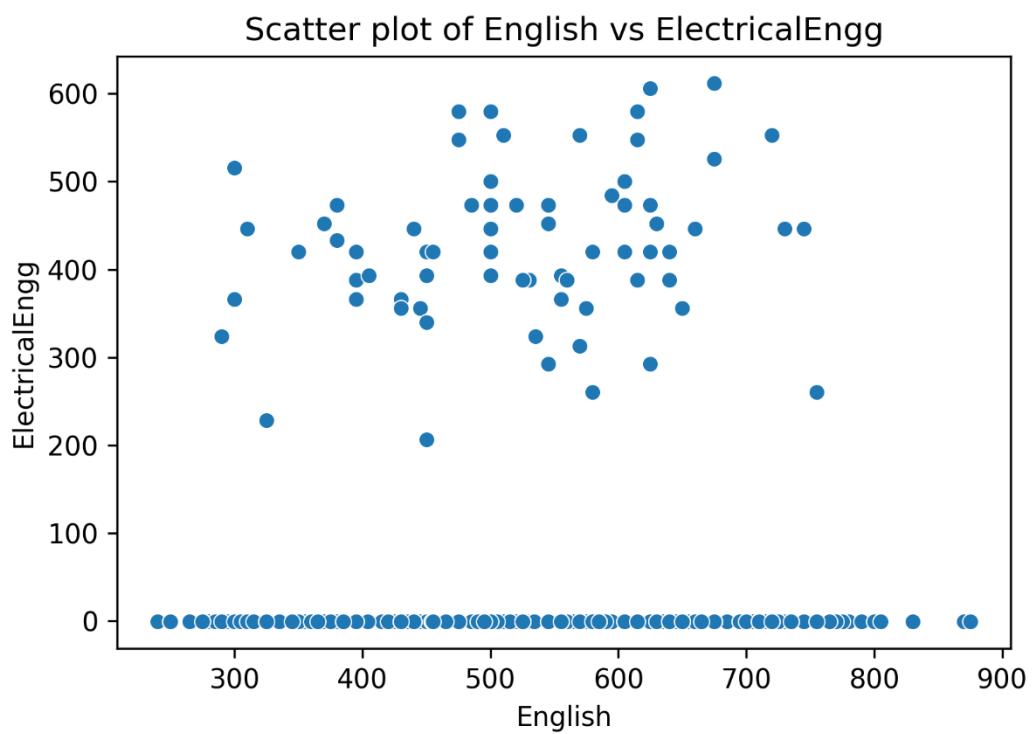
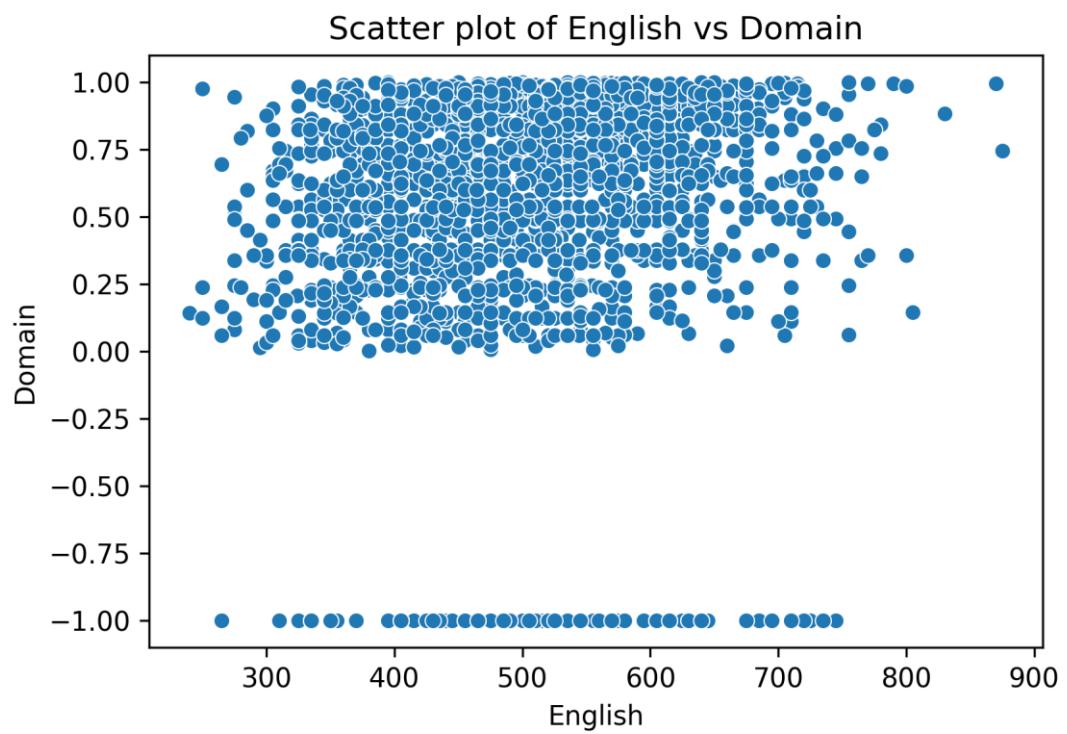
Scatter plot of English vs CivilEngg



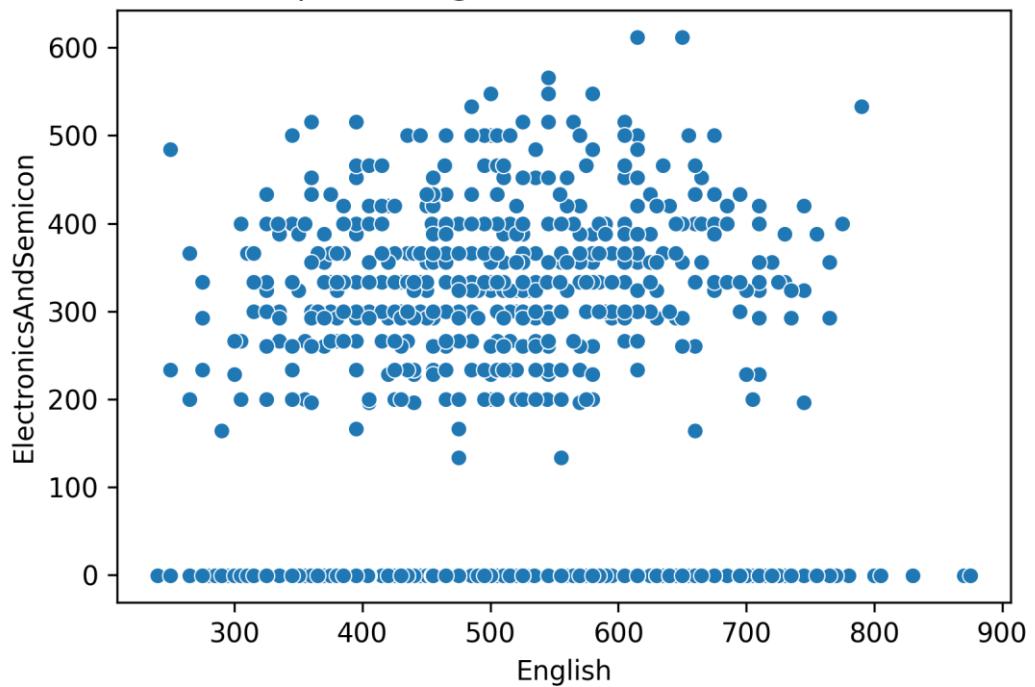
Scatter plot of English vs ComputerProgramming



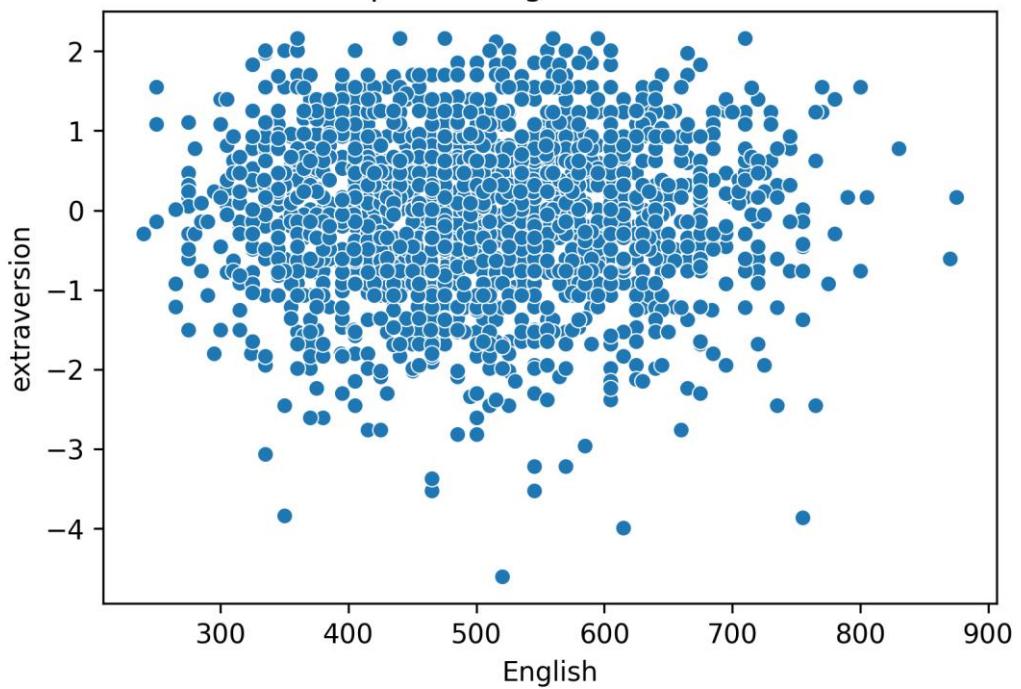




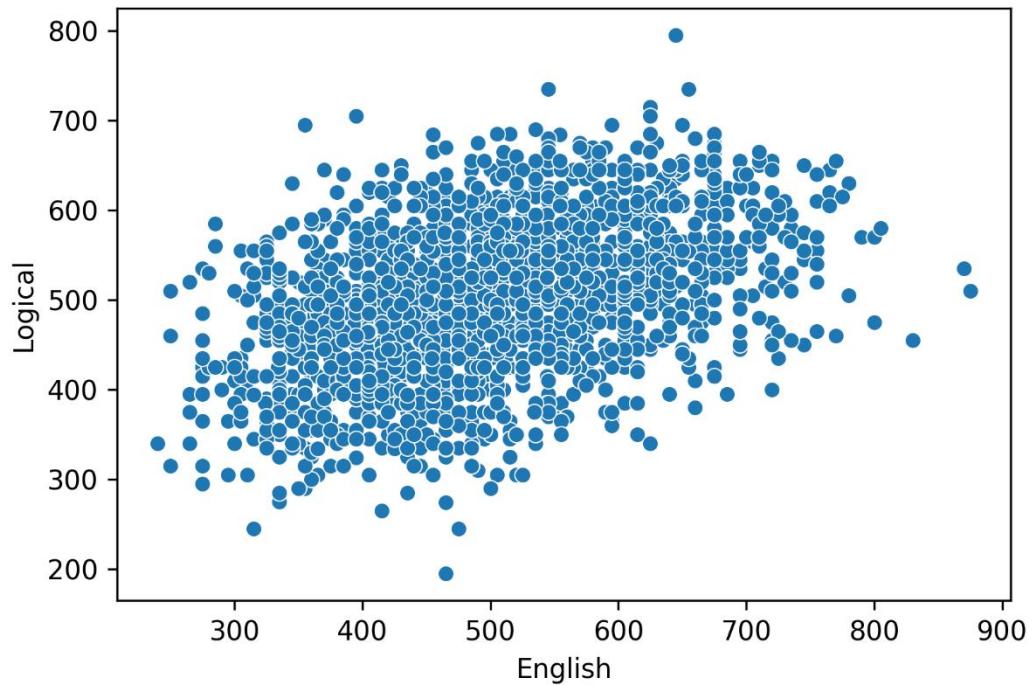
Scatter plot of English vs ElectronicsAndSemicon



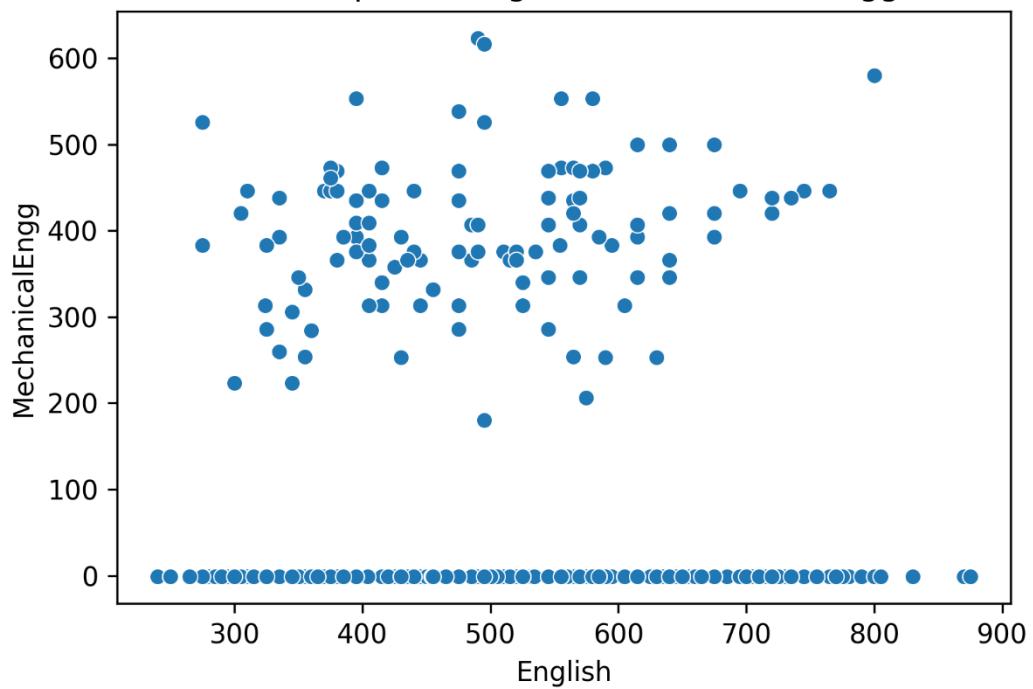
Scatter plot of English vs extraversion



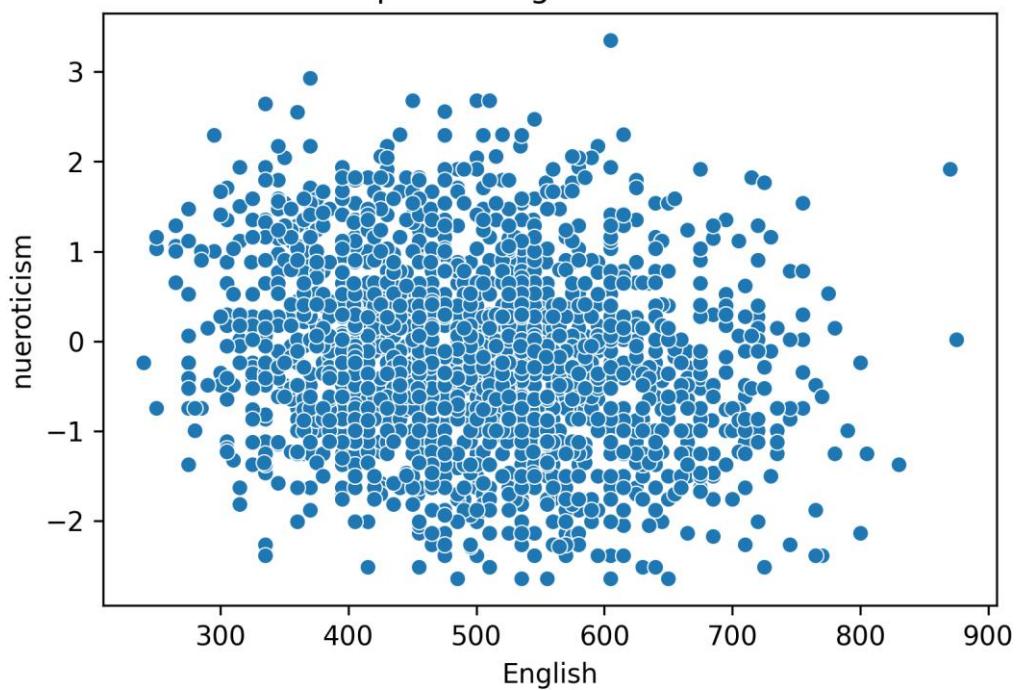
Scatter plot of English vs Logical



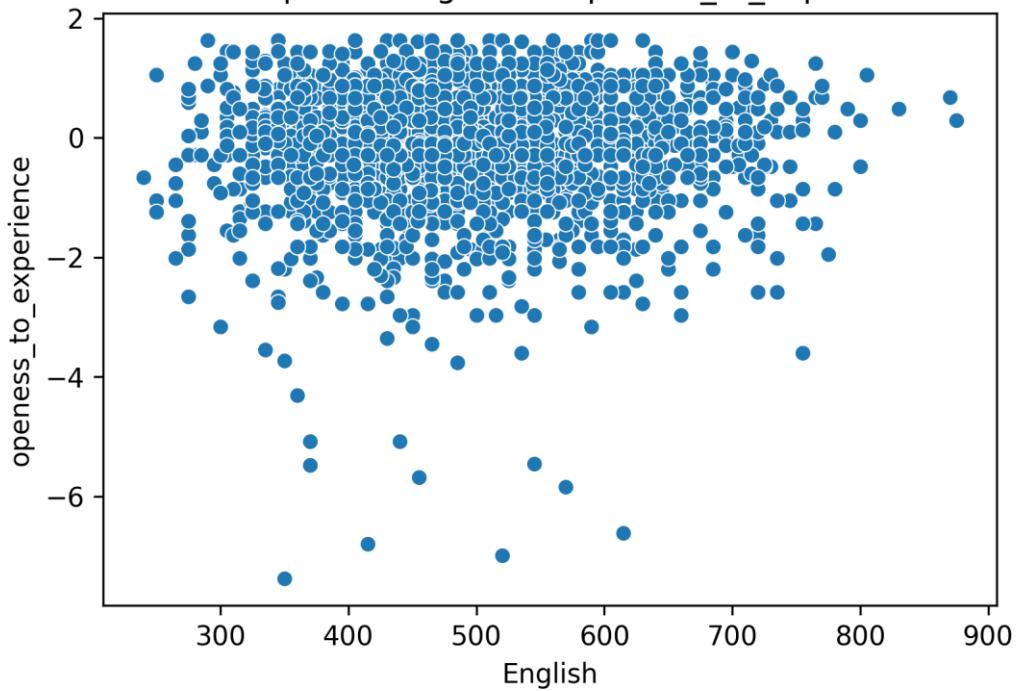
Scatter plot of English vs MechanicalEngg



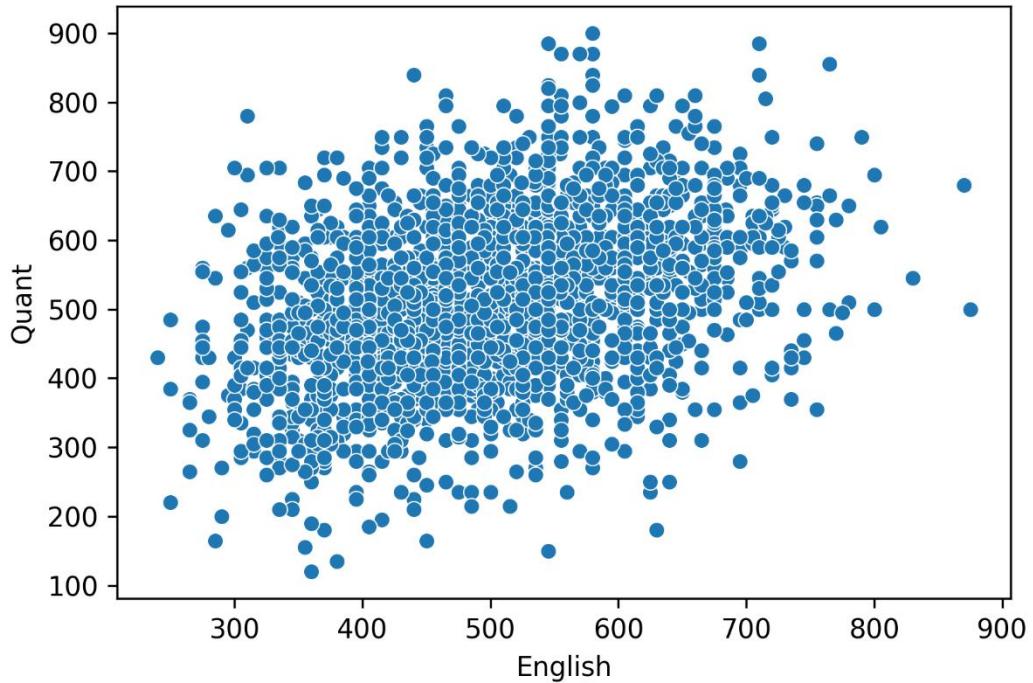
Scatter plot of English vs nueroticism



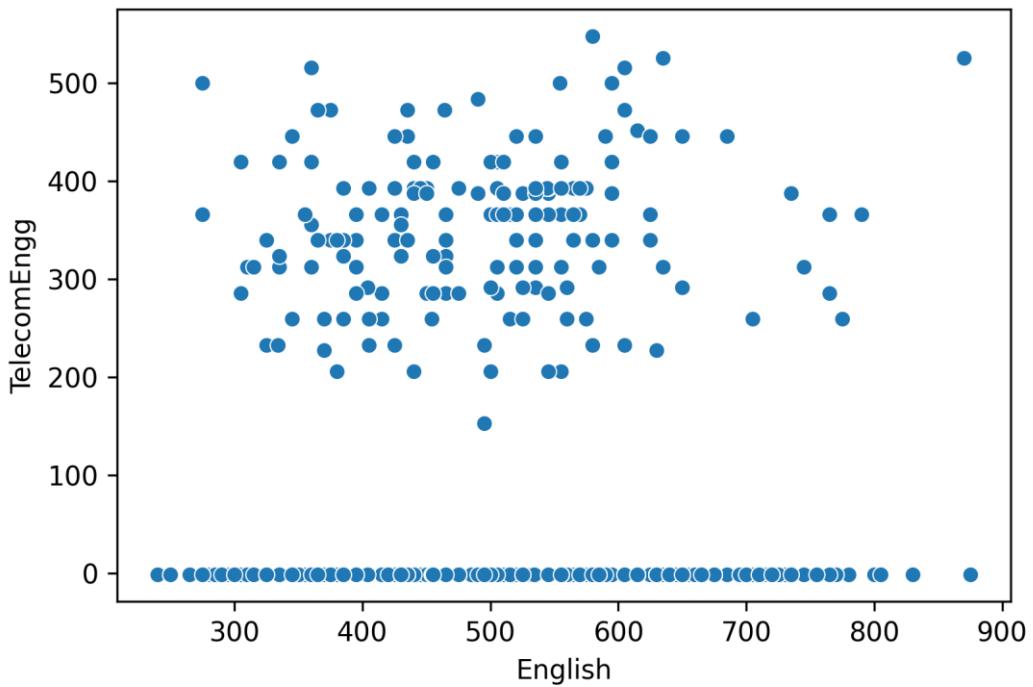
Scatter plot of English vs openness_to_experience



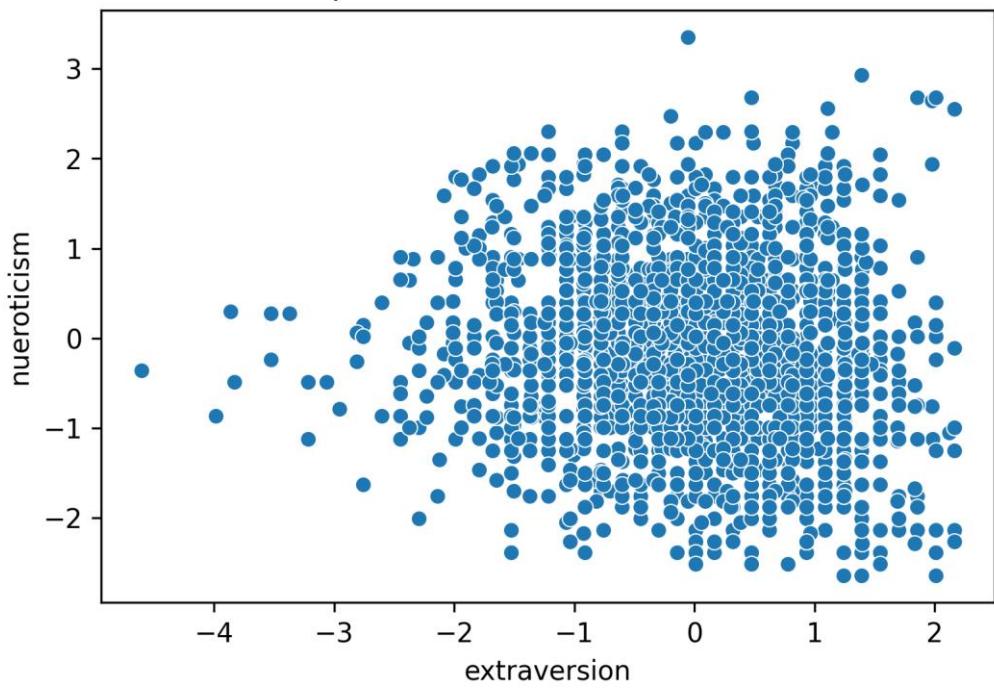
Scatter plot of English vs Quant



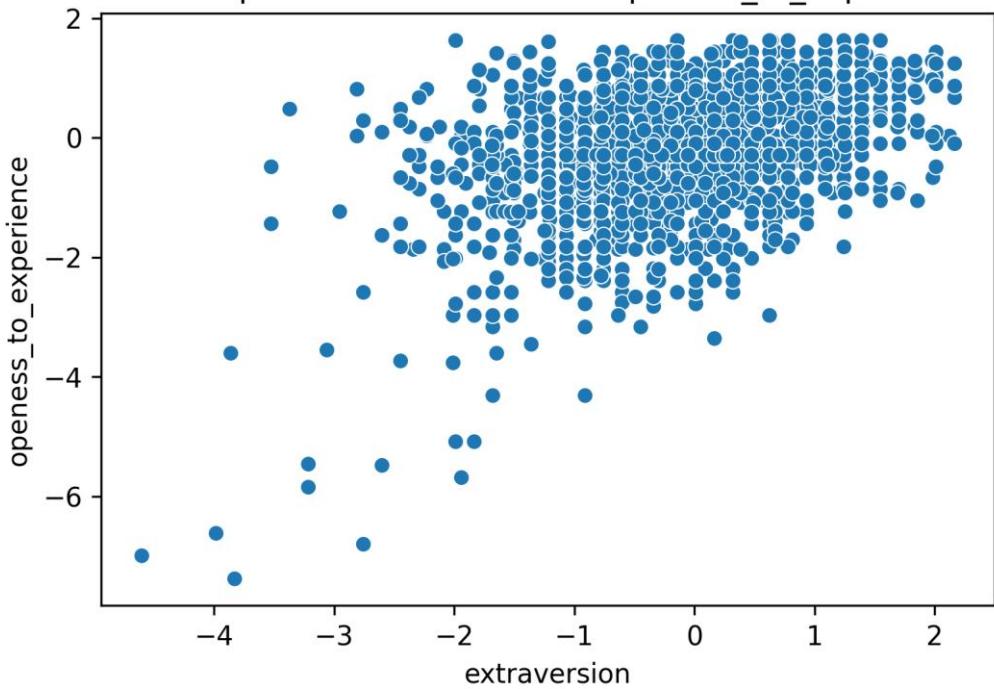
Scatter plot of English vs TelecomEngg



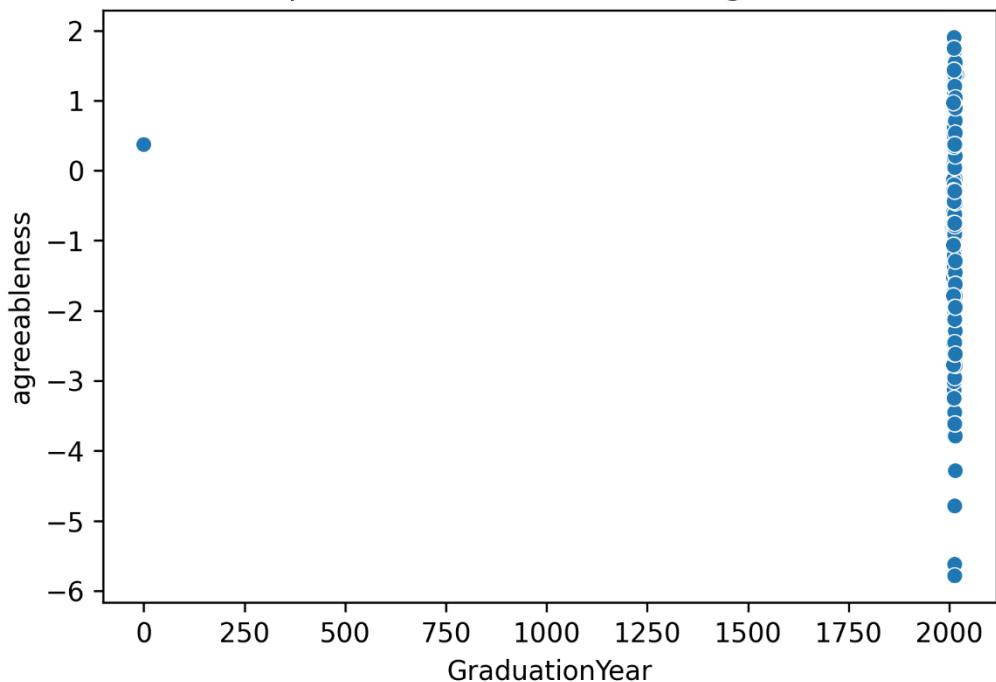
Scatter plot of extraversion vs nueroticism



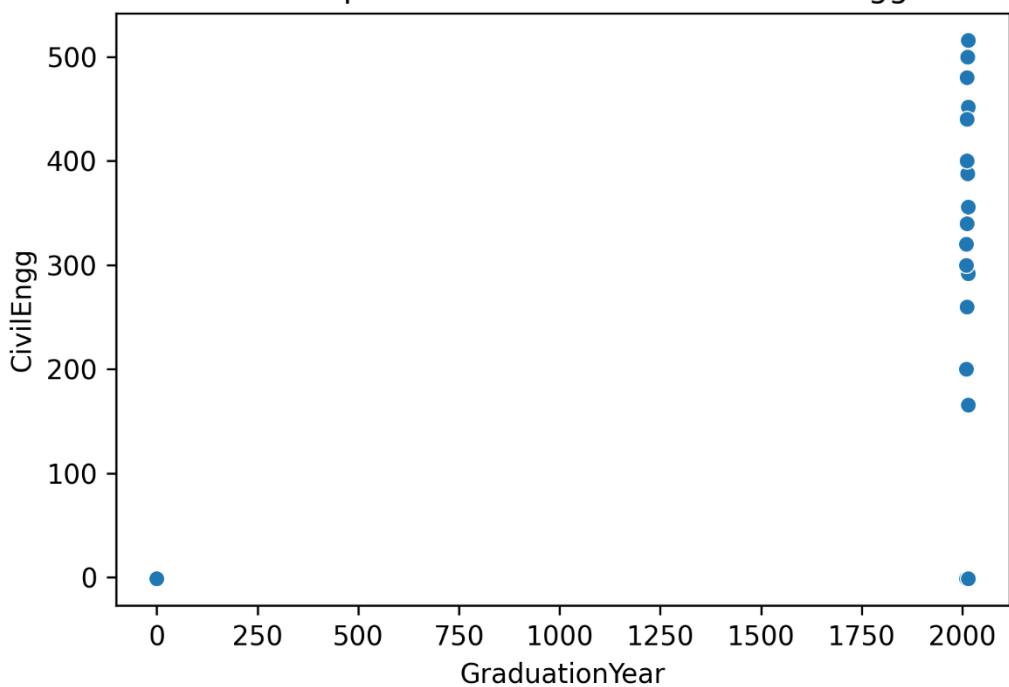
Scatter plot of extraversion vs openness_to_experience



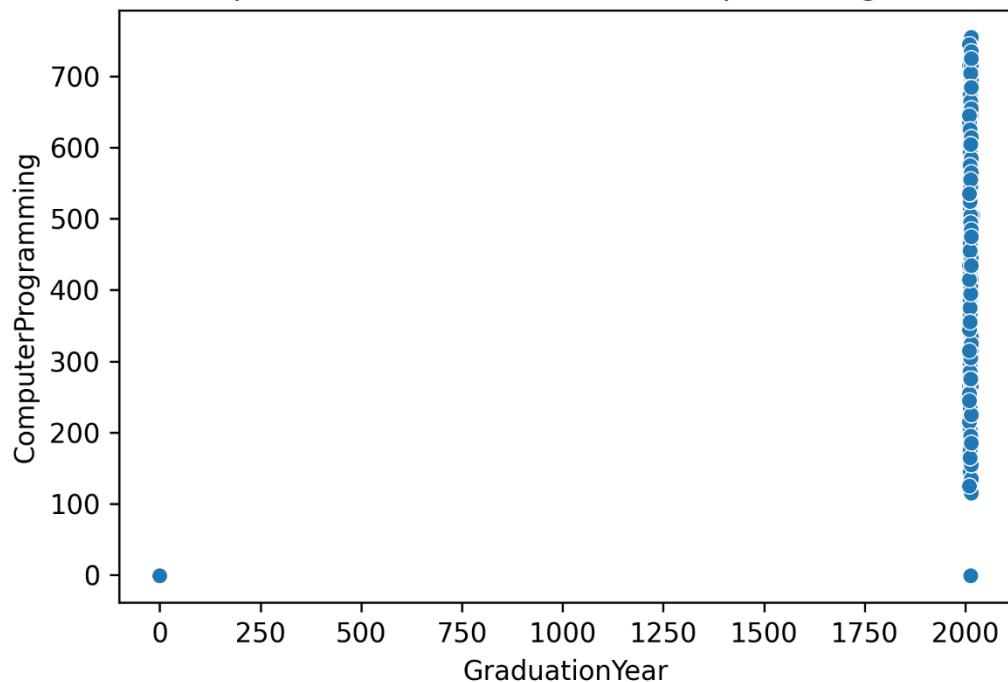
Scatter plot of GraduationYear vs agreeableness



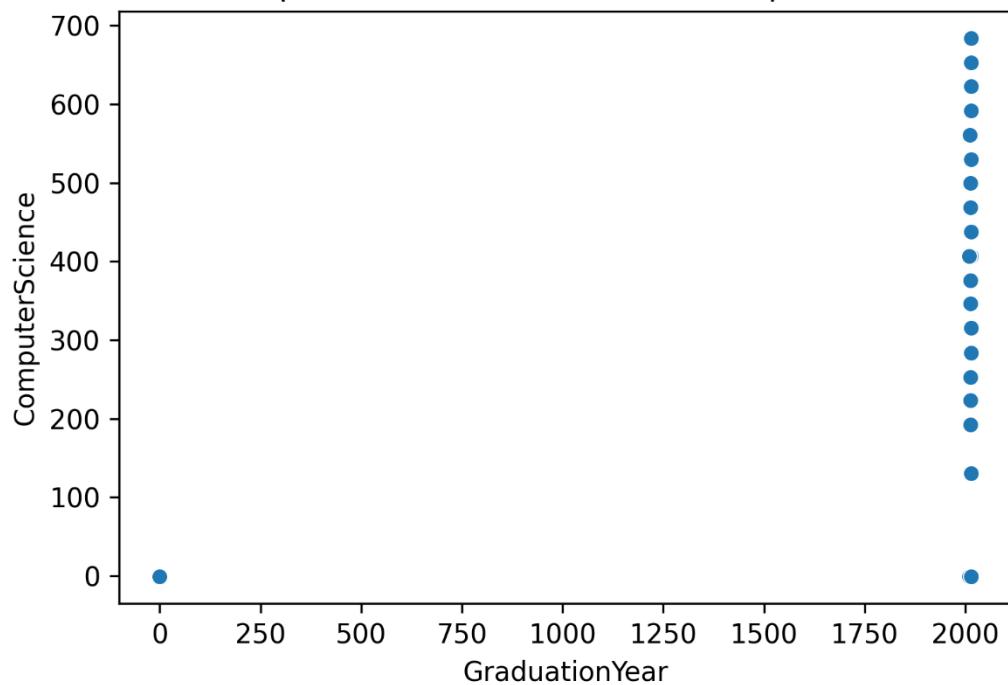
Scatter plot of GraduationYear vs CivilEngg



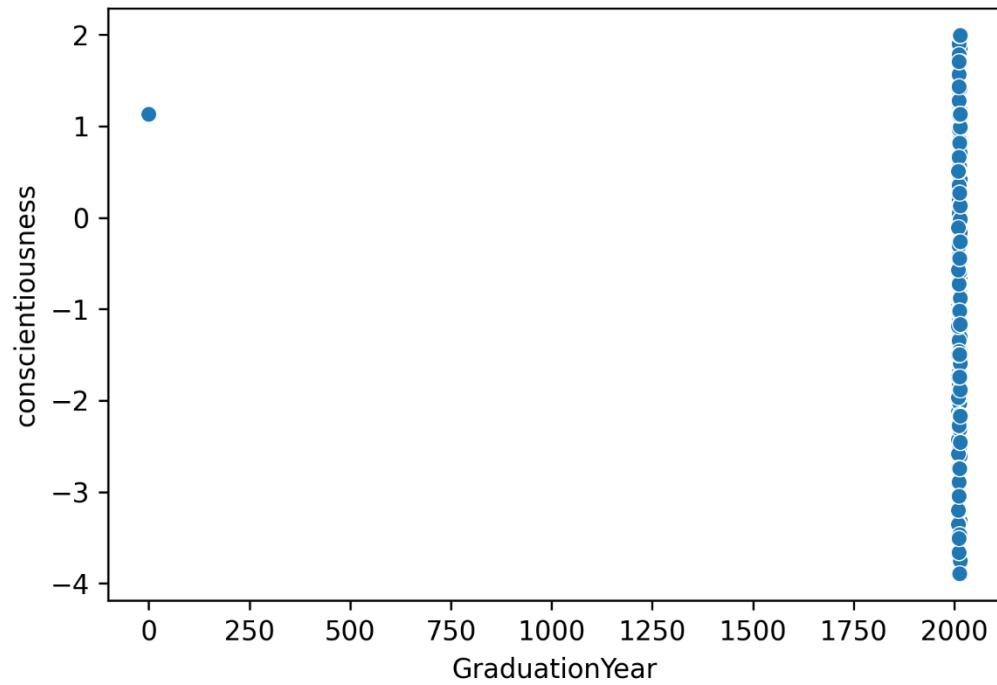
Scatter plot of GraduationYear vs ComputerProgramming



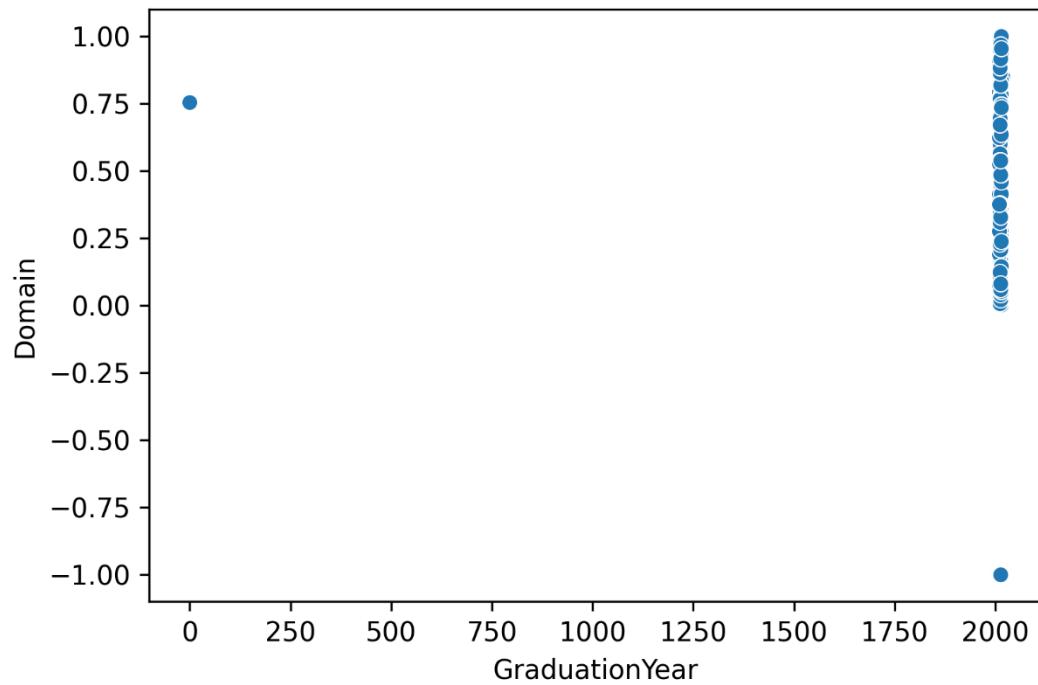
Scatter plot of GraduationYear vs ComputerScience



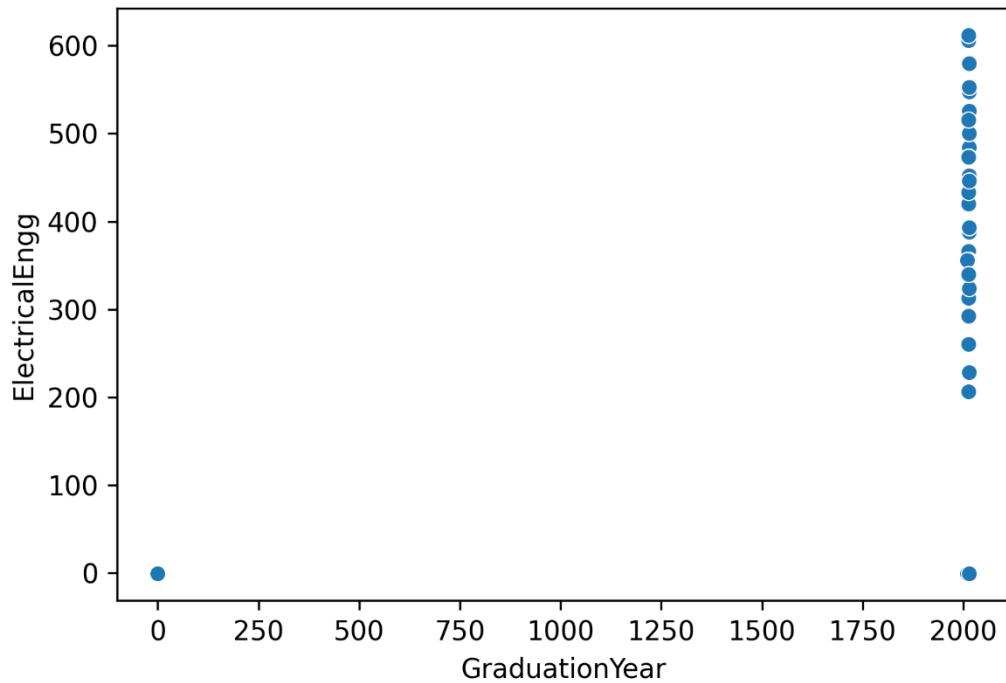
Scatter plot of GraduationYear vs conscientiousness



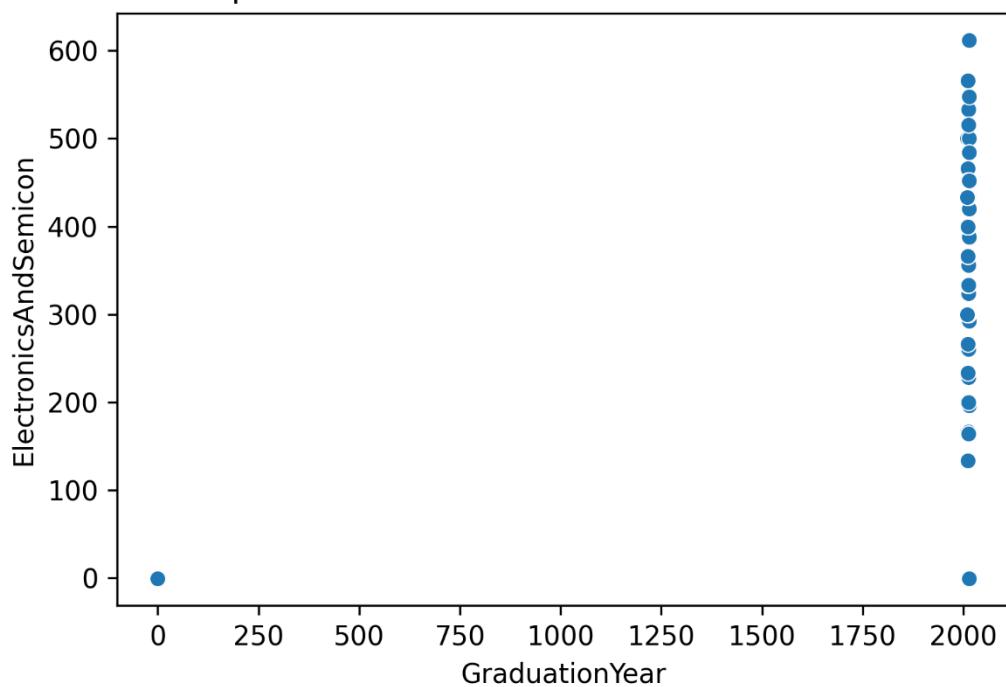
Scatter plot of GraduationYear vs Domain



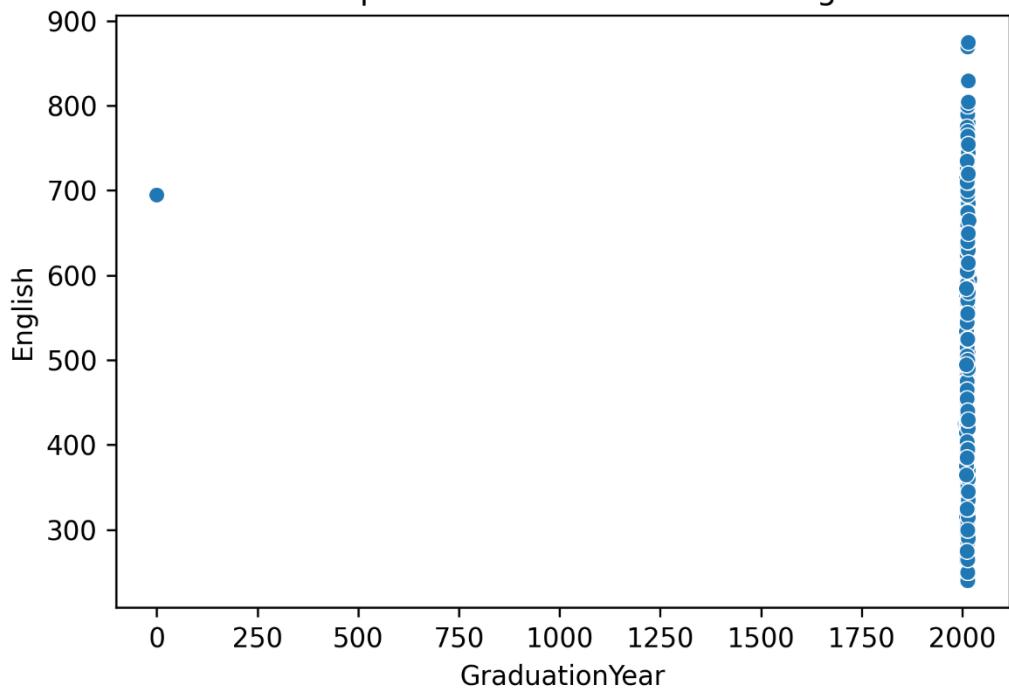
Scatter plot of GraduationYear vs ElectricalEngg



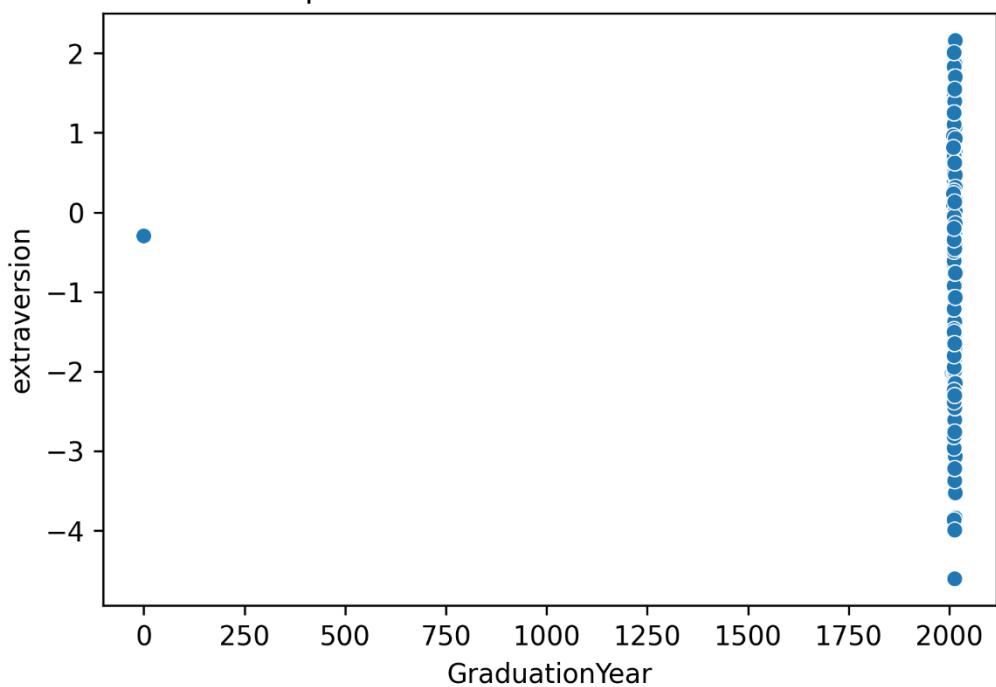
Scatter plot of GraduationYear vs ElectronicsAndSemicon



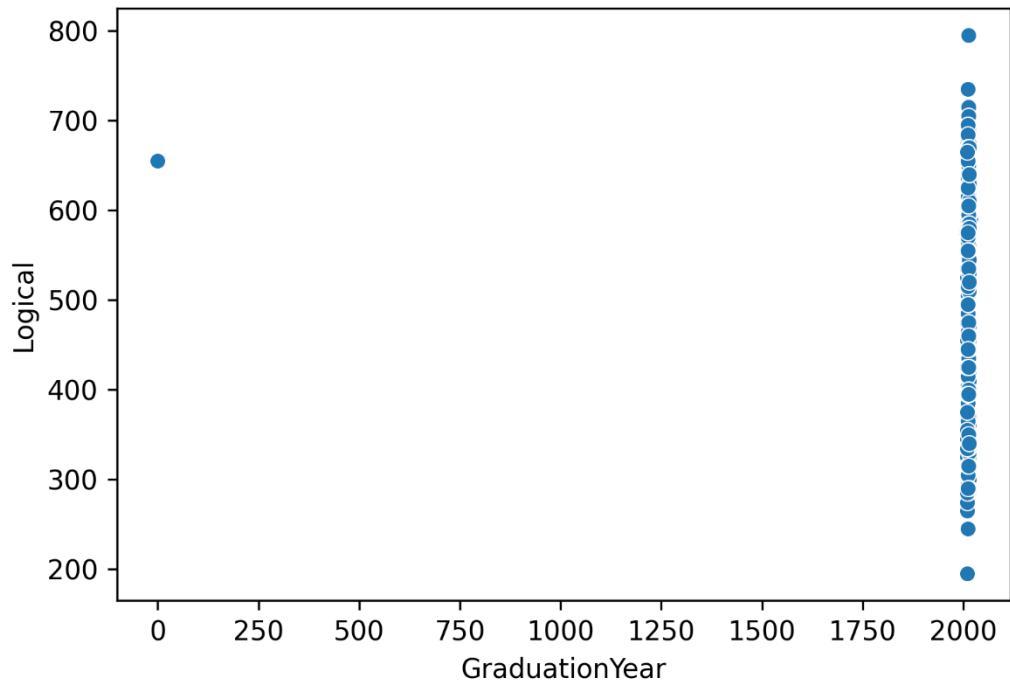
Scatter plot of GraduationYear vs English



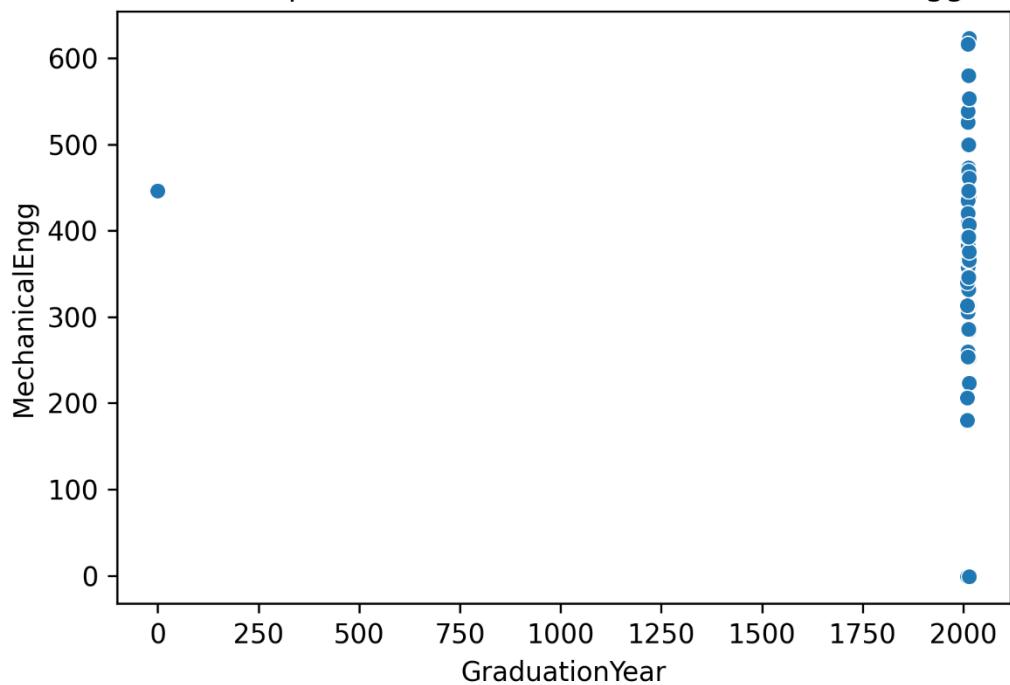
Scatter plot of GraduationYear vs extraversion



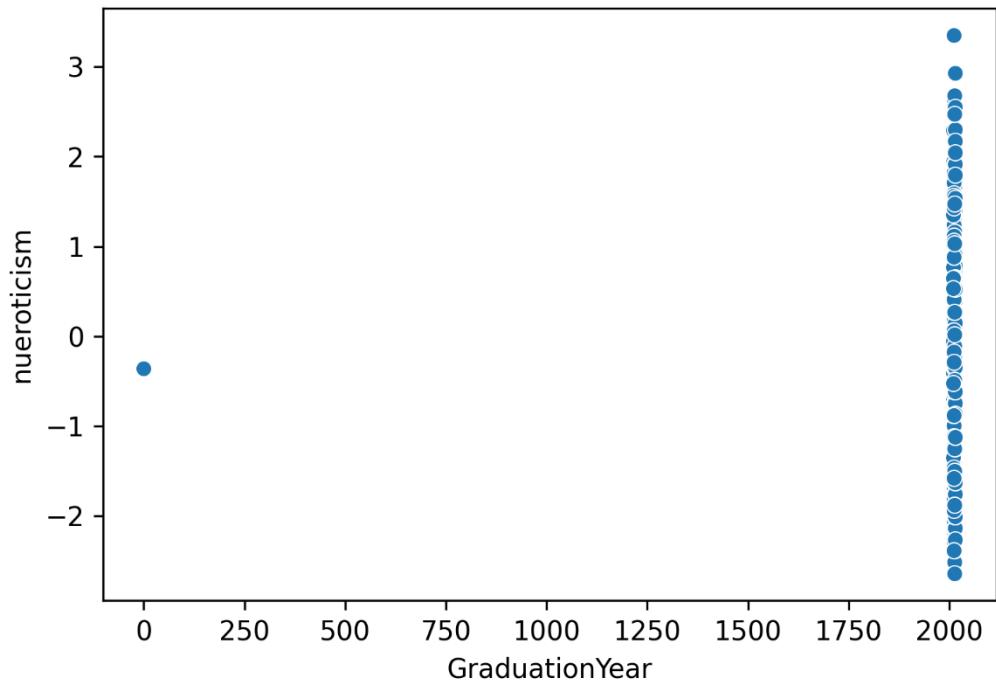
Scatter plot of GraduationYear vs Logical



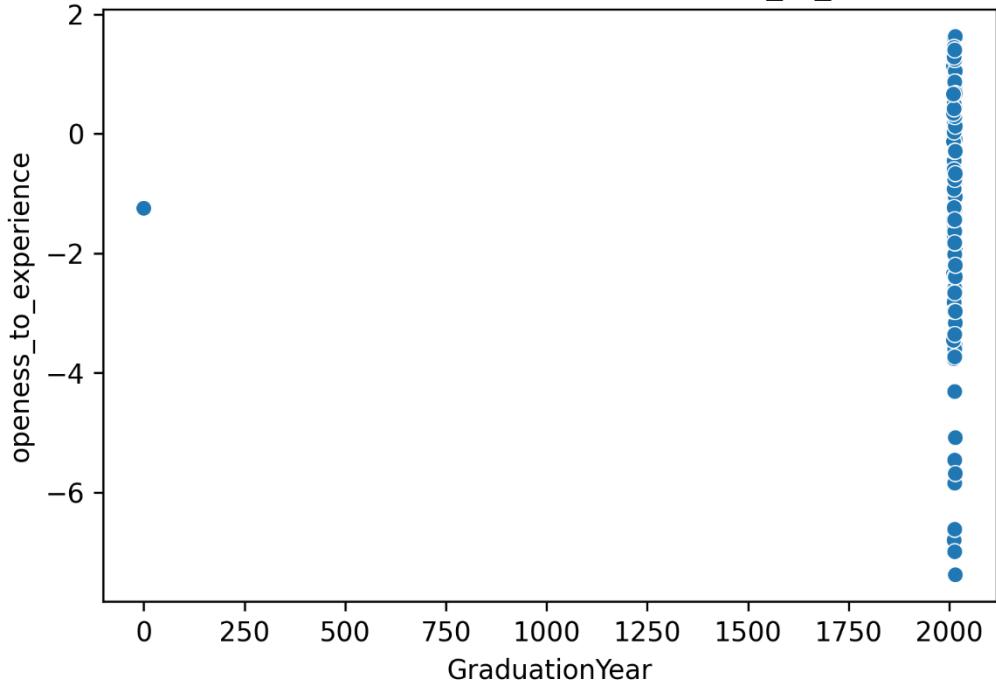
Scatter plot of GraduationYear vs MechanicalEngg



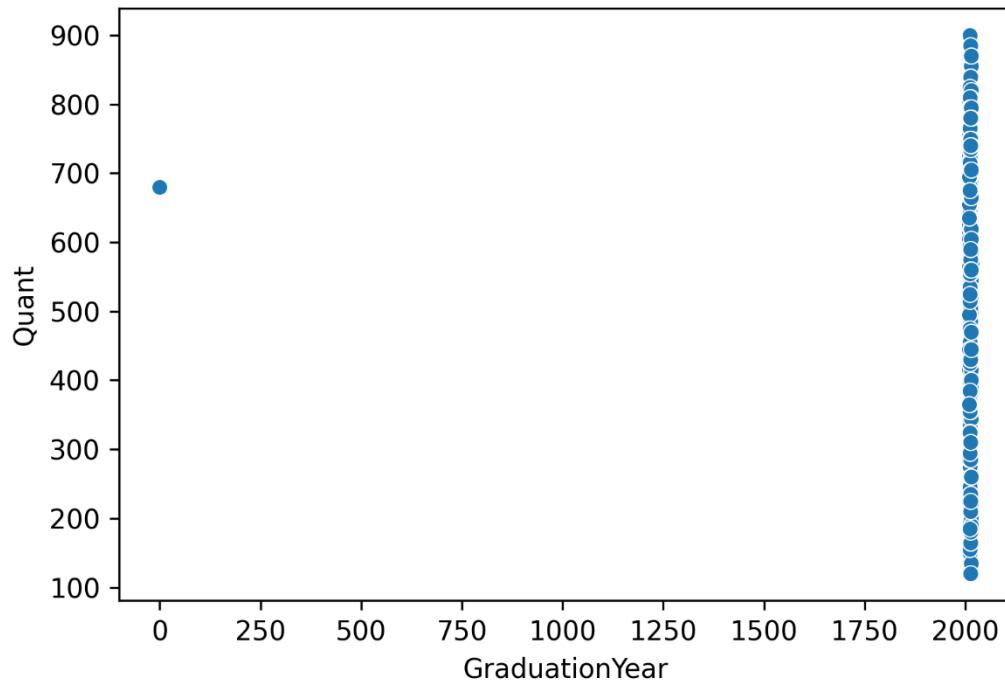
Scatter plot of GraduationYear vs nueroticism



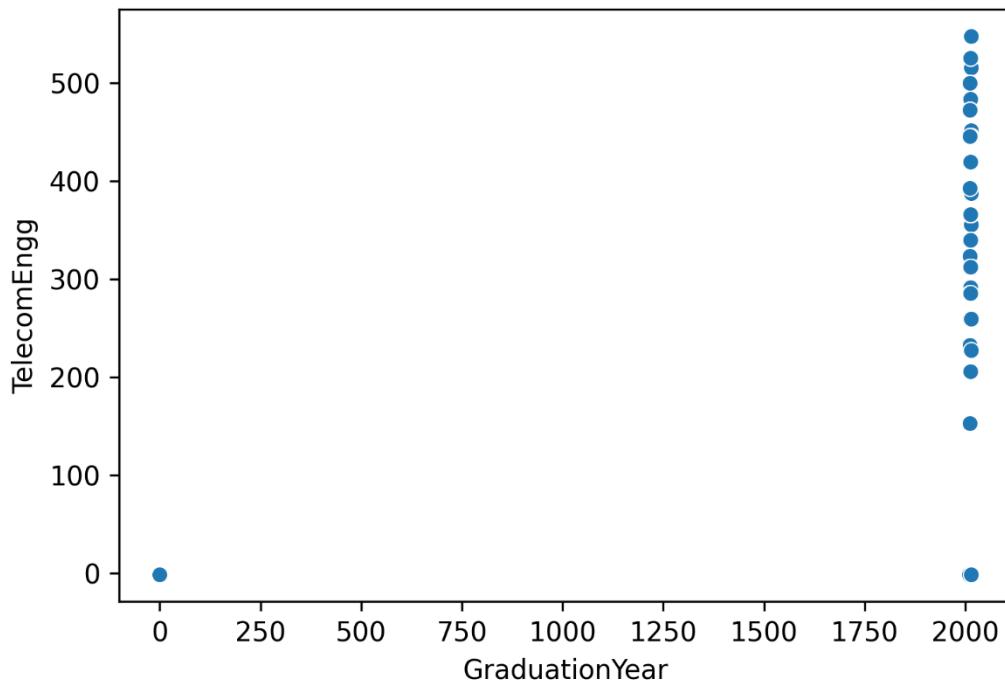
Scatter plot of GraduationYear vs openness_to_experience



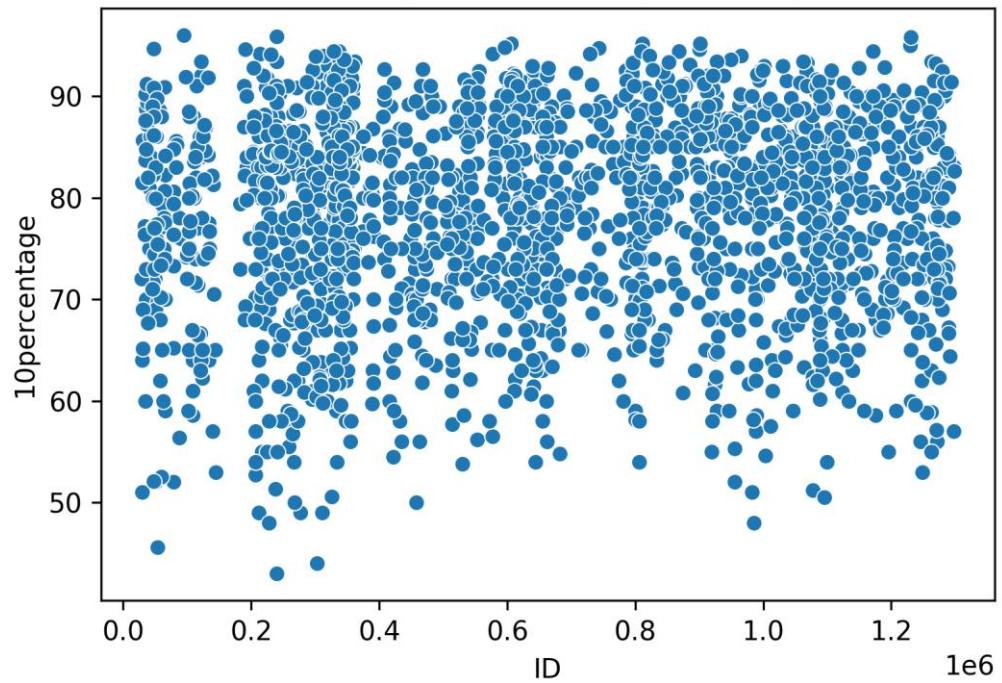
Scatter plot of GraduationYear vs Quant



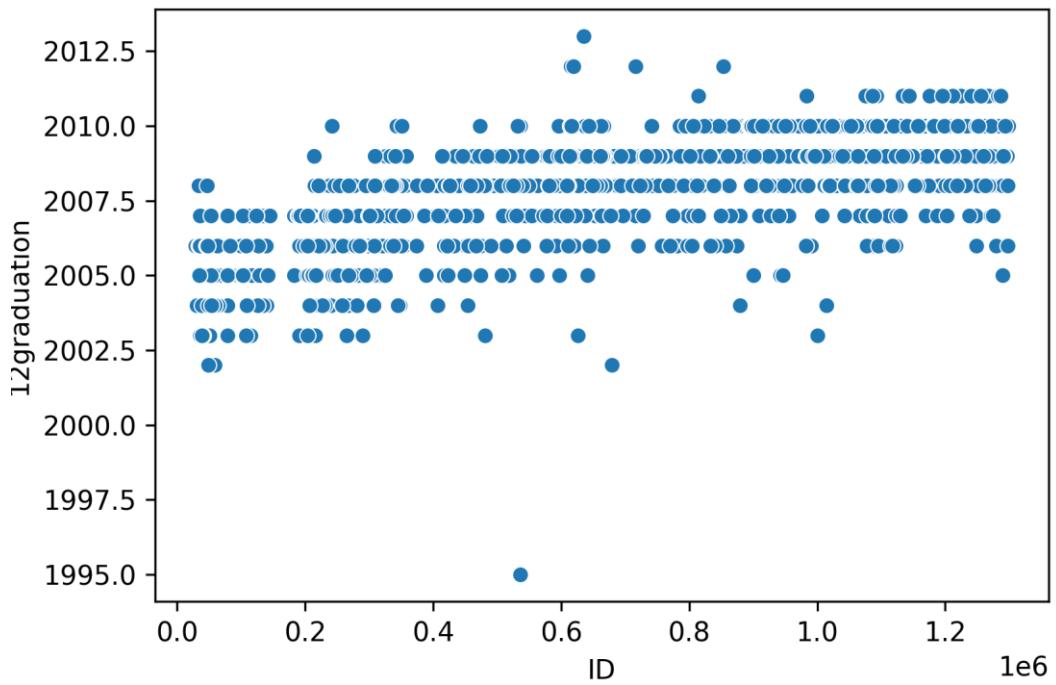
Scatter plot of GraduationYear vs TelecomEngg



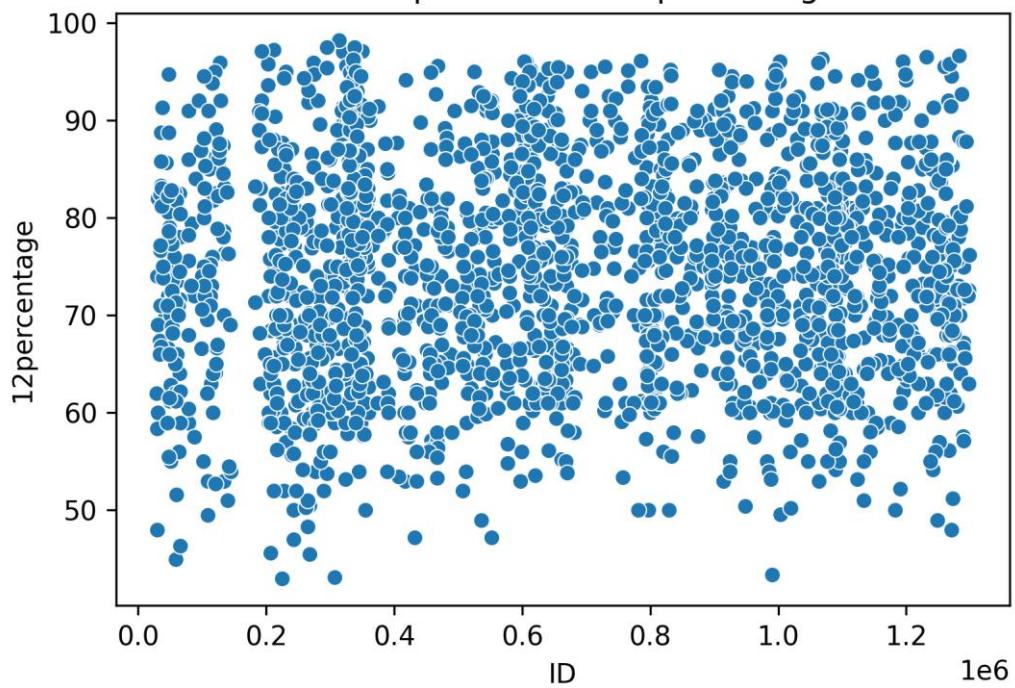
Scatter plot of ID vs 10percentage



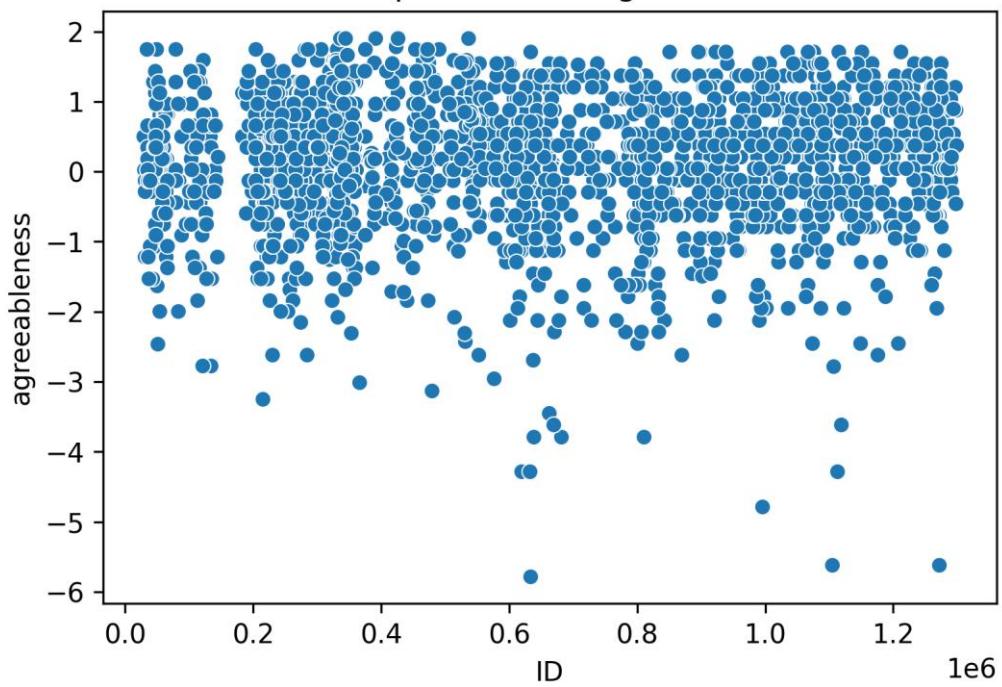
Scatter plot of ID vs 12graduation



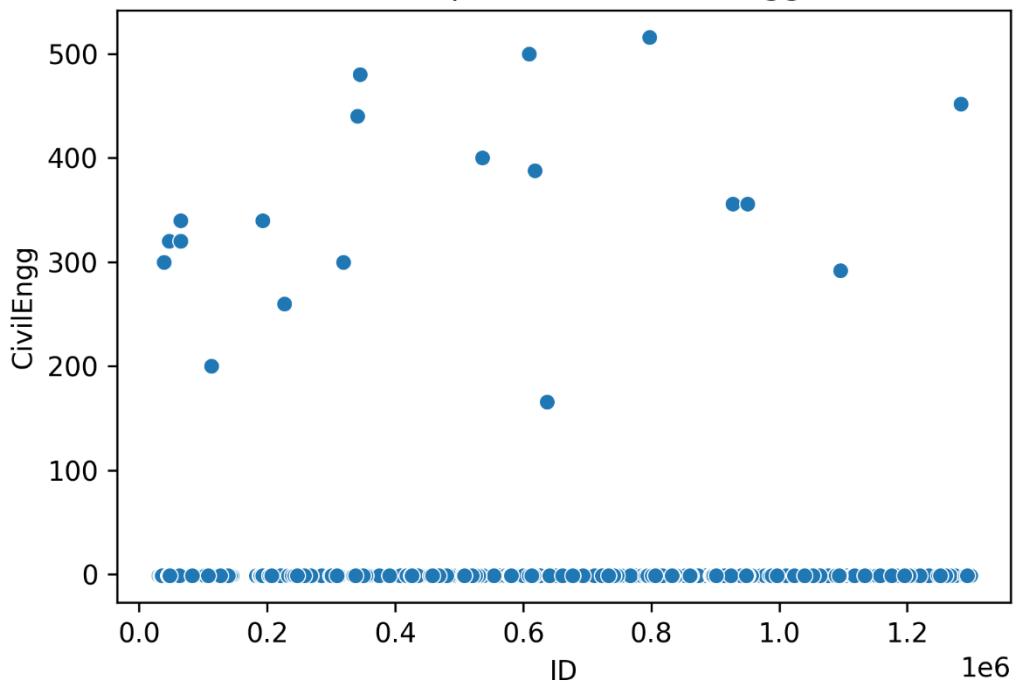
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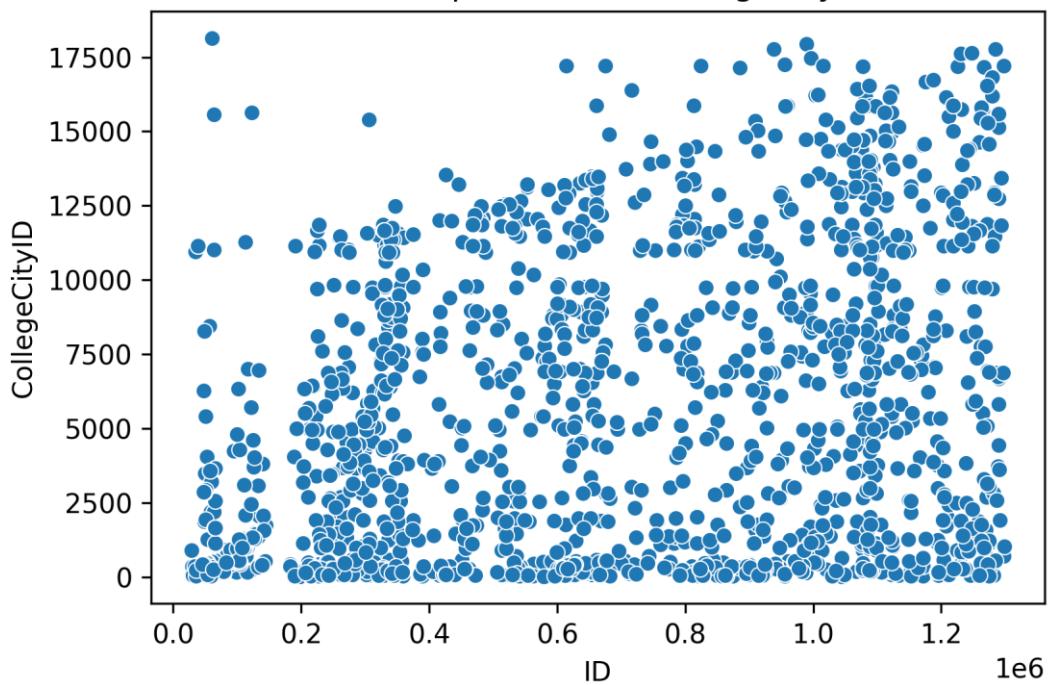
Scatter plot of ID vs agreeableness



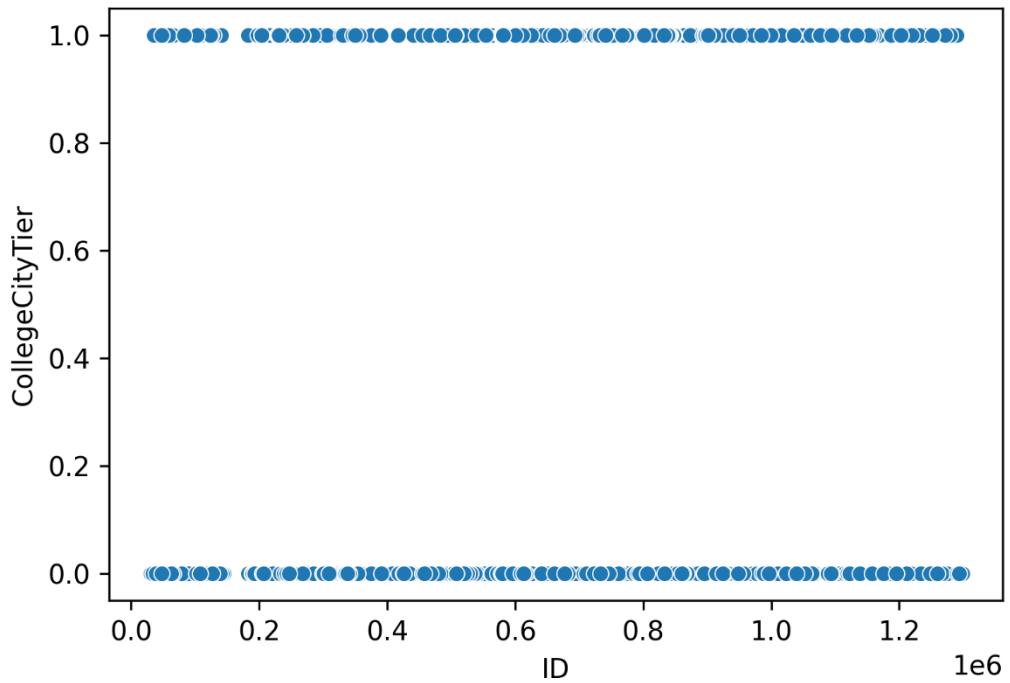
Scatter plot of ID vs CivilEngg



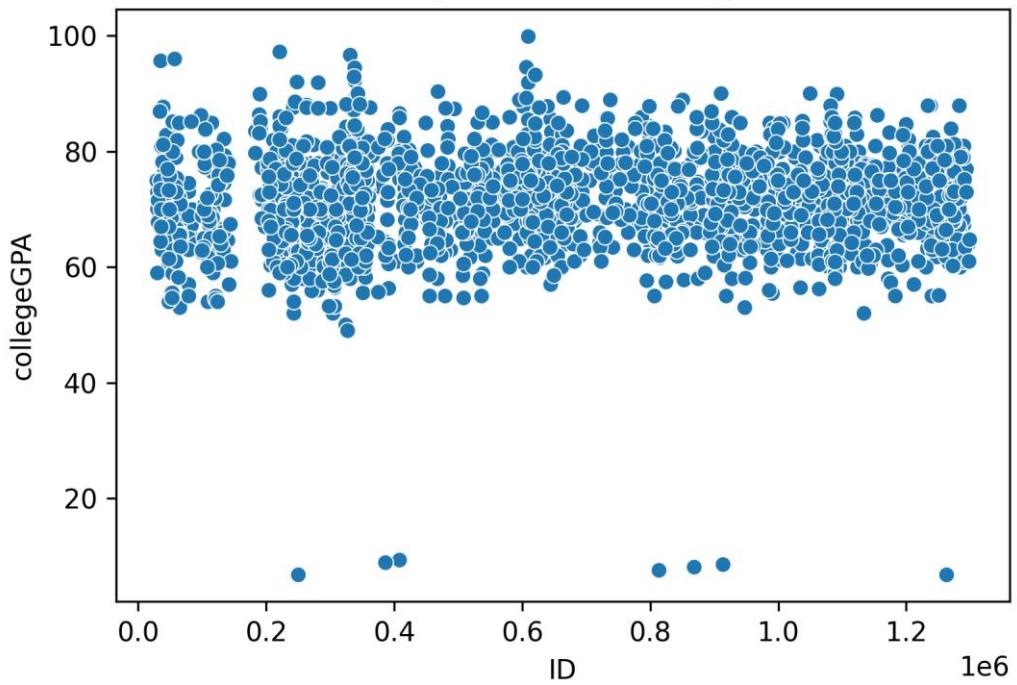
Scatter plot of ID vs CollegeCityID



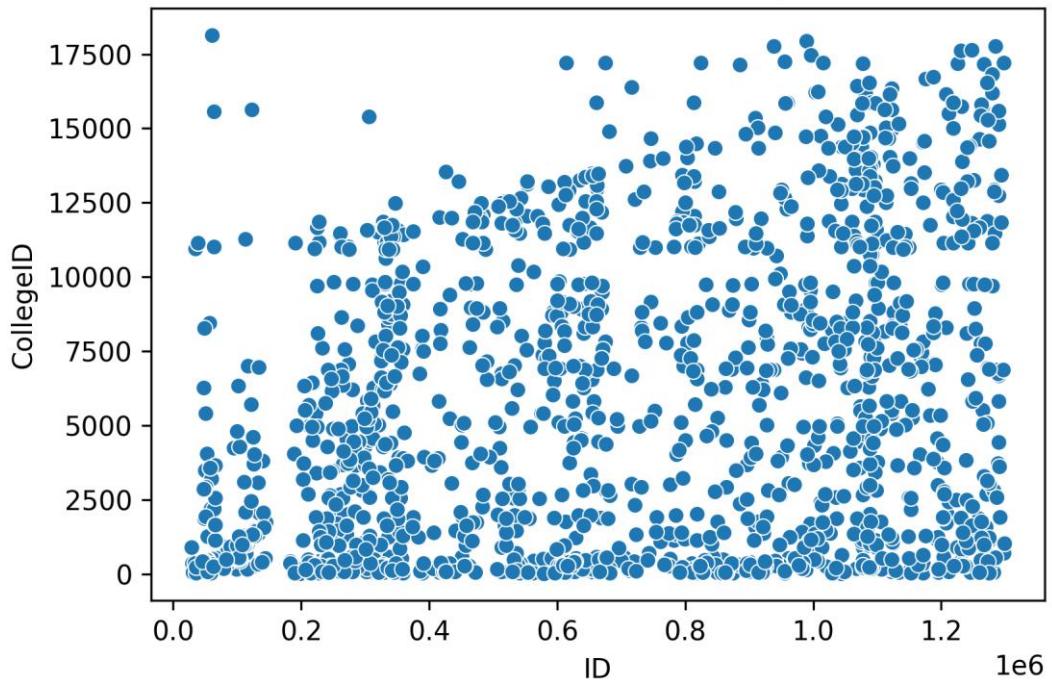
Scatter plot of ID vs CollegeCityTier



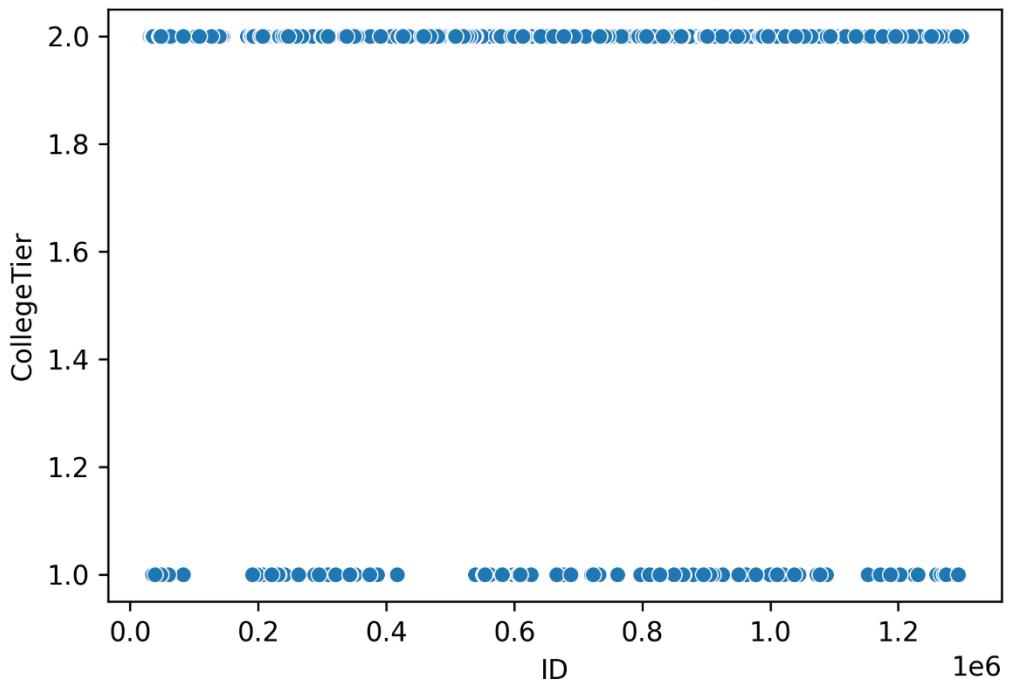
Scatter plot of ID vs collegeGPA



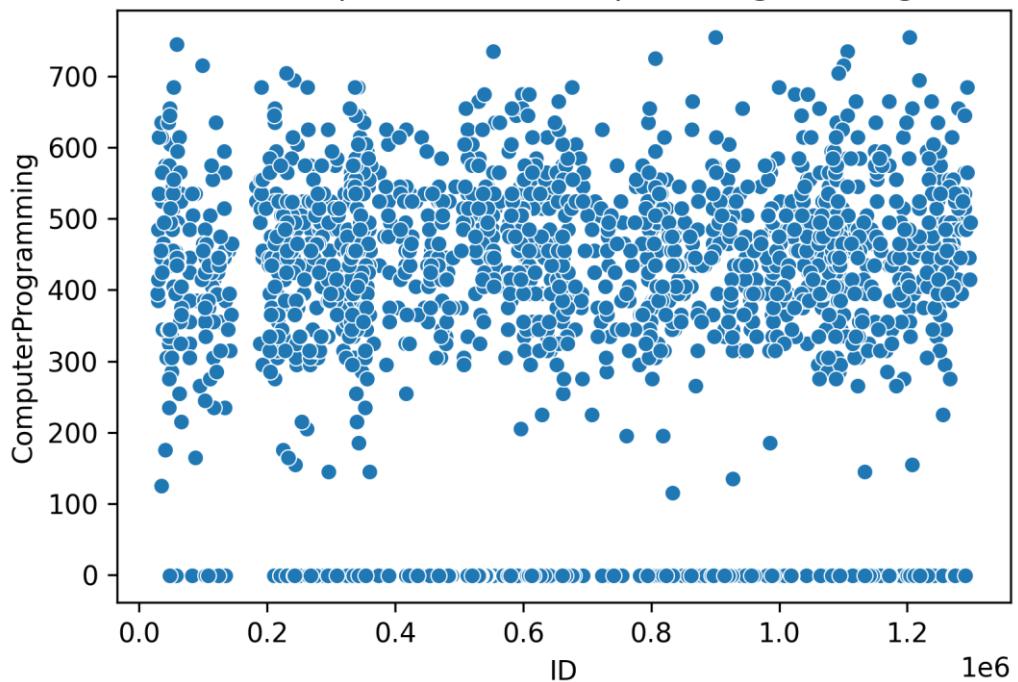
Scatter plot of ID vs CollegeID



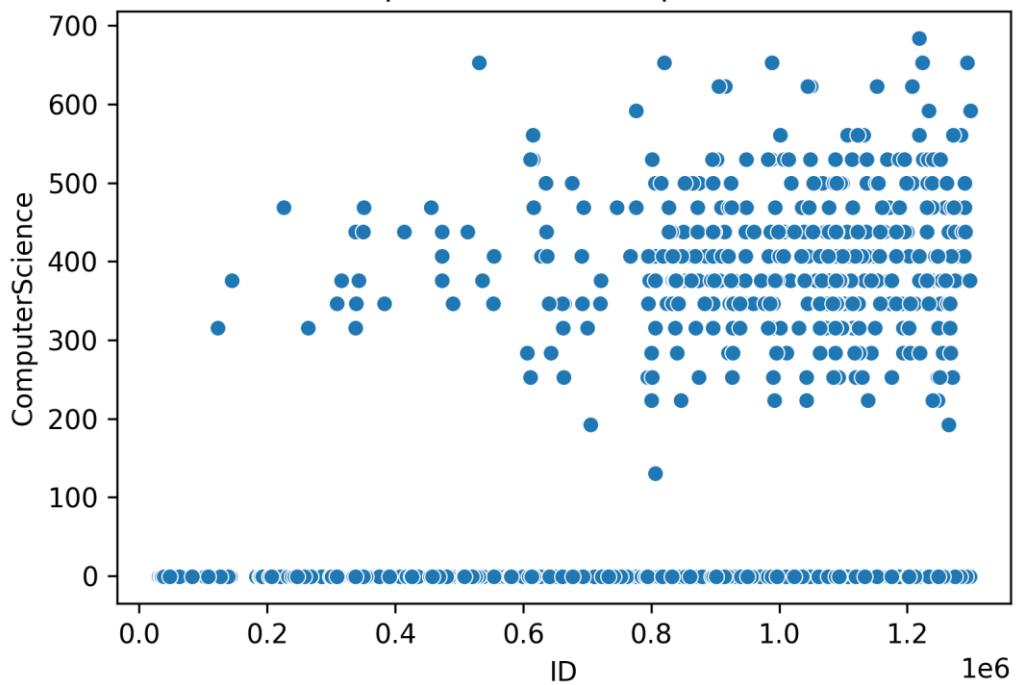
Scatter plot of ID vs CollegeTier



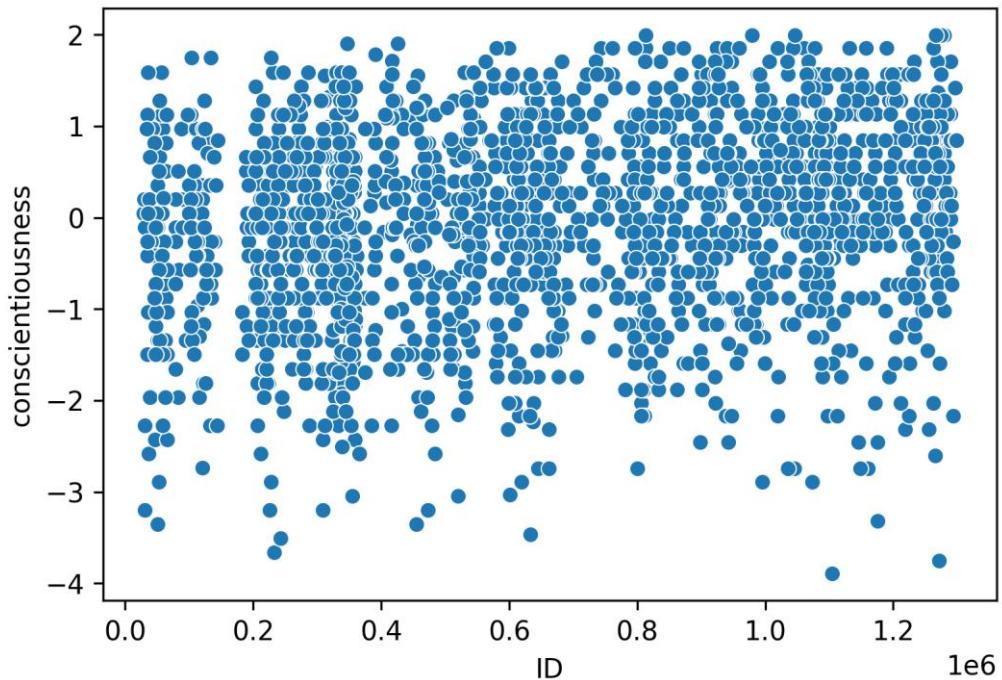
Scatter plot of ID vs ComputerProgramming



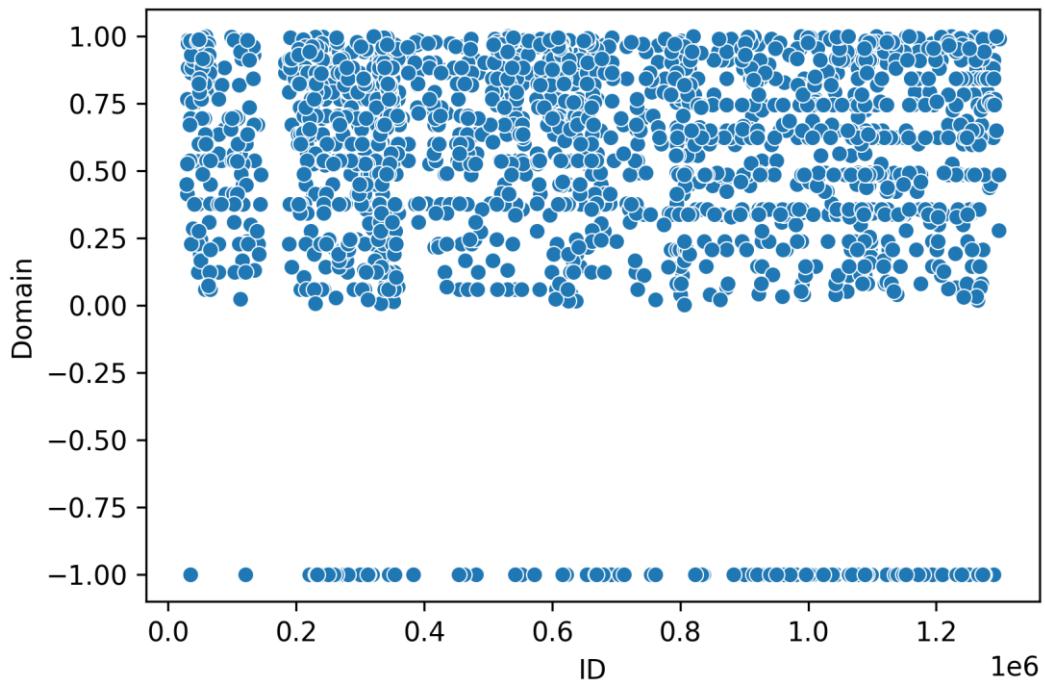
Scatter plot of ID vs ComputerScience



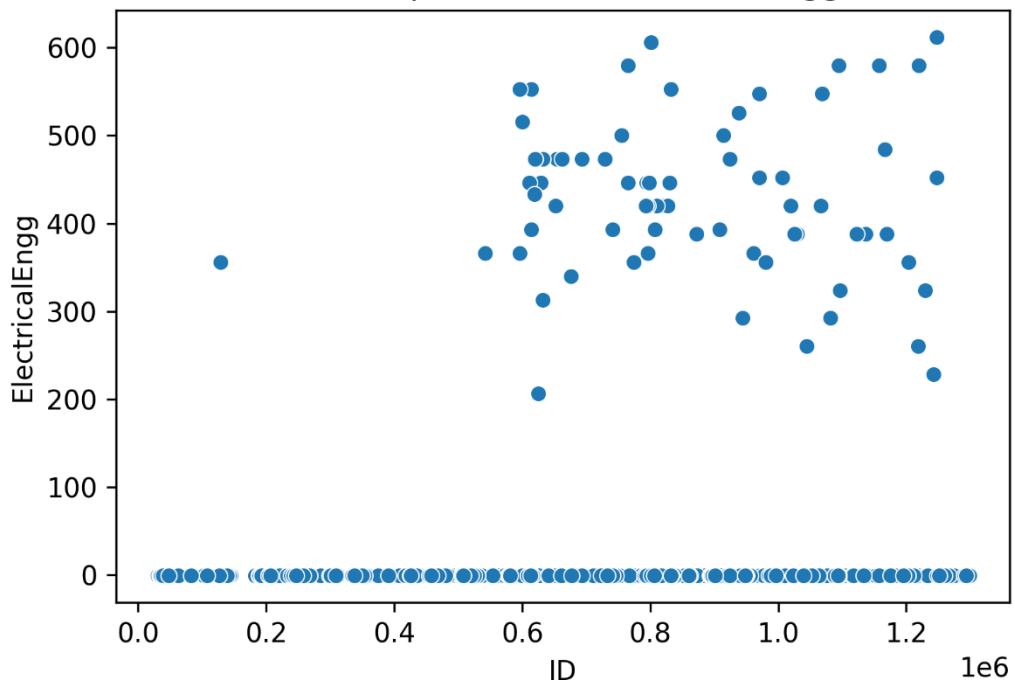
Scatter plot of ID vs conscientiousness



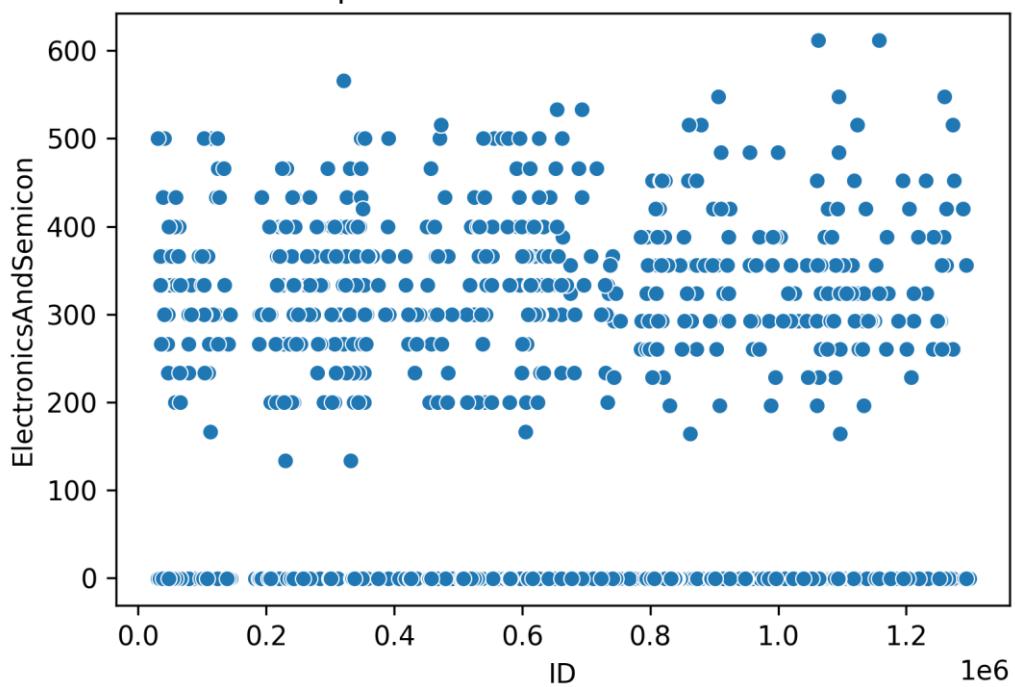
Scatter plot of ID vs Domain



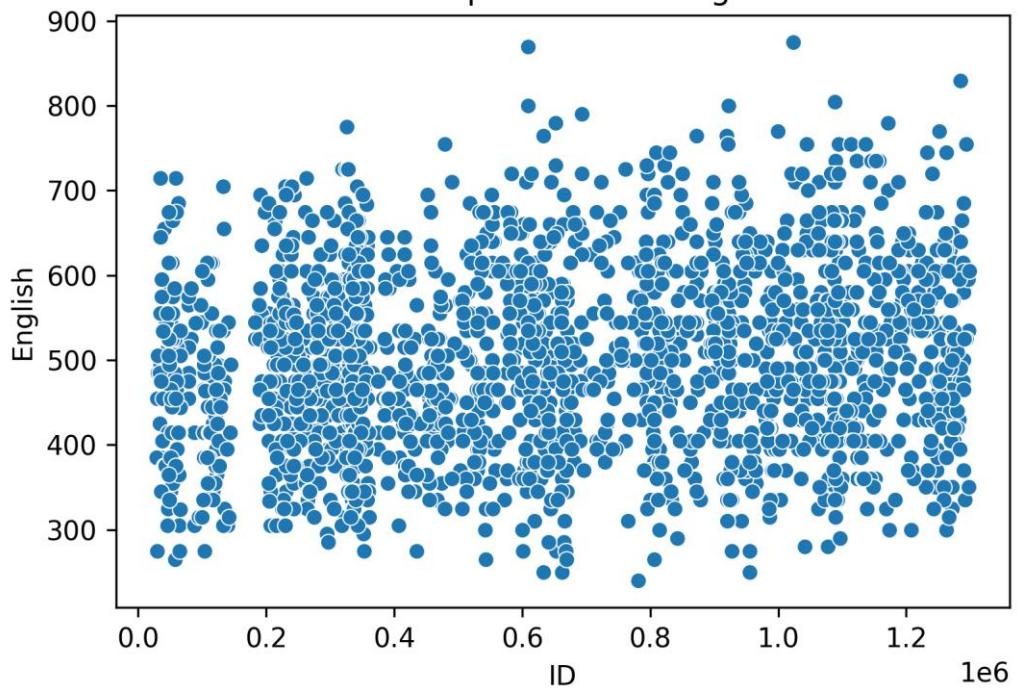
Scatter plot of ID vs ElectricalEngg



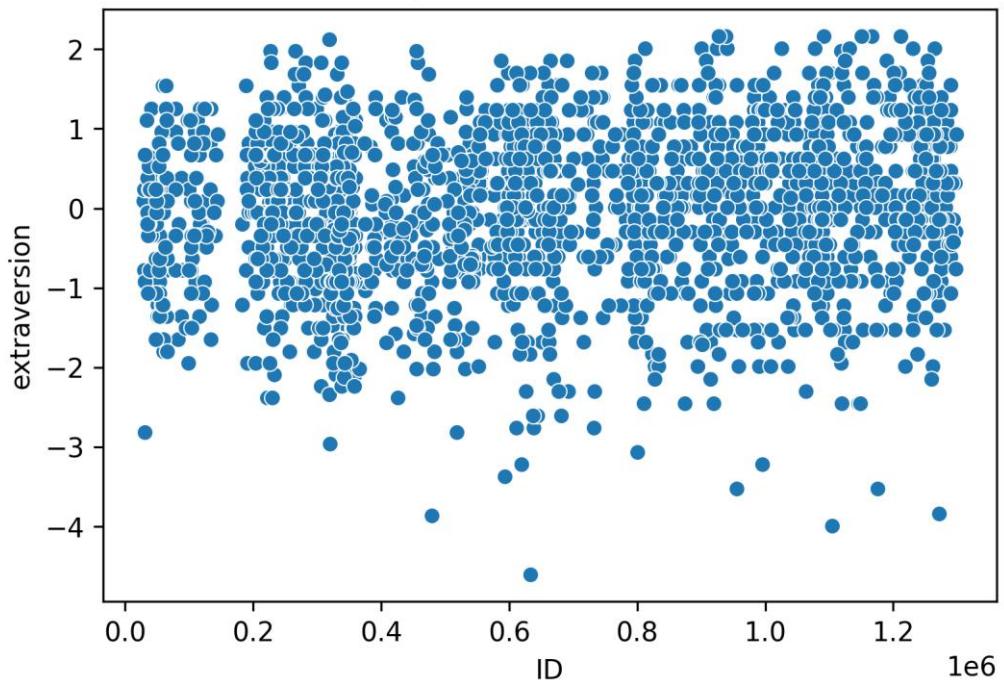
Scatter plot of ID vs ElectronicsAndSemicon



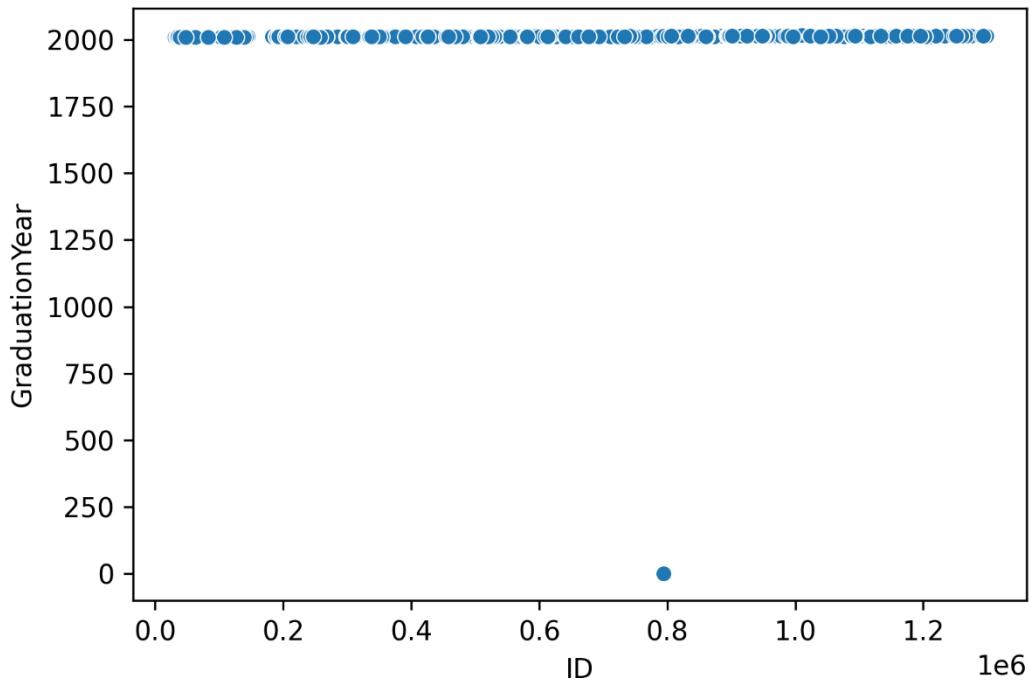
Scatter plot of ID vs English



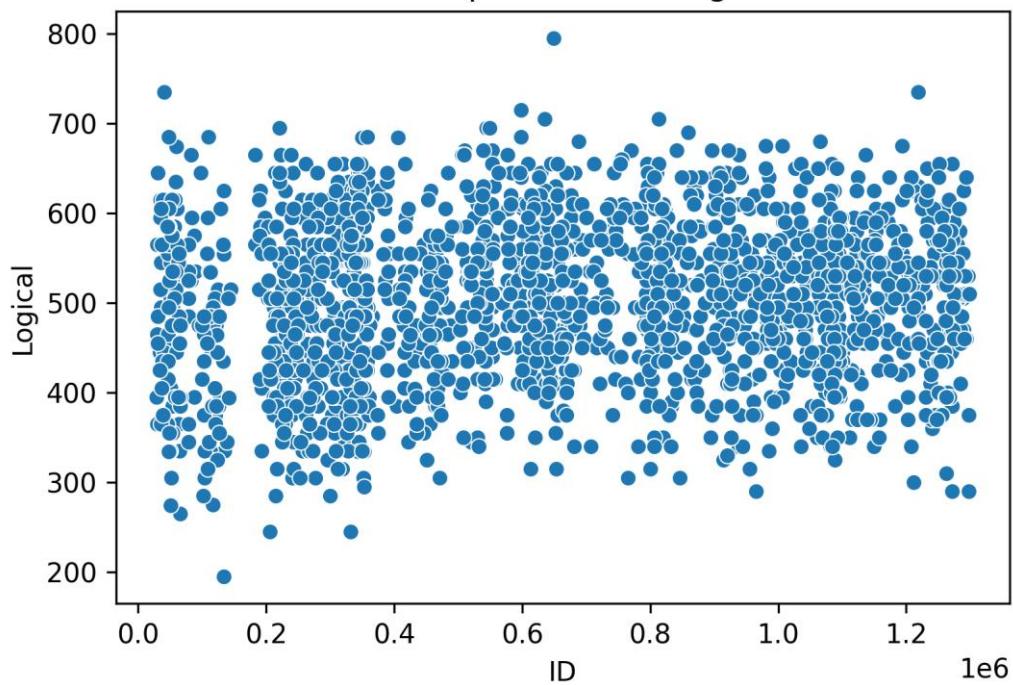
Scatter plot of ID vs extraversion

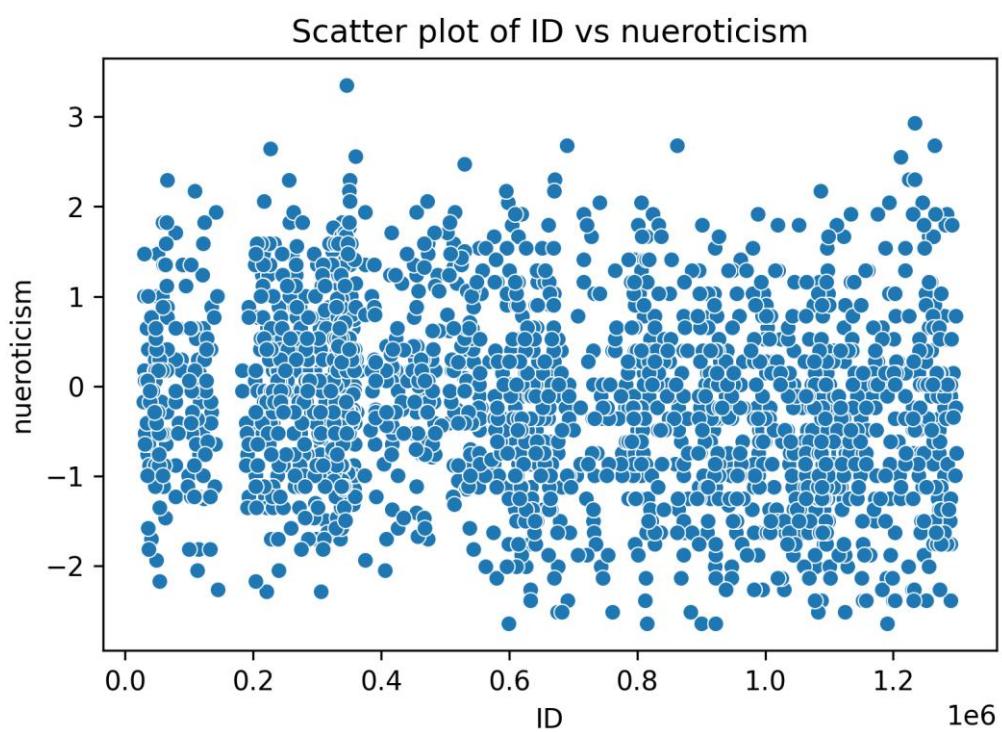
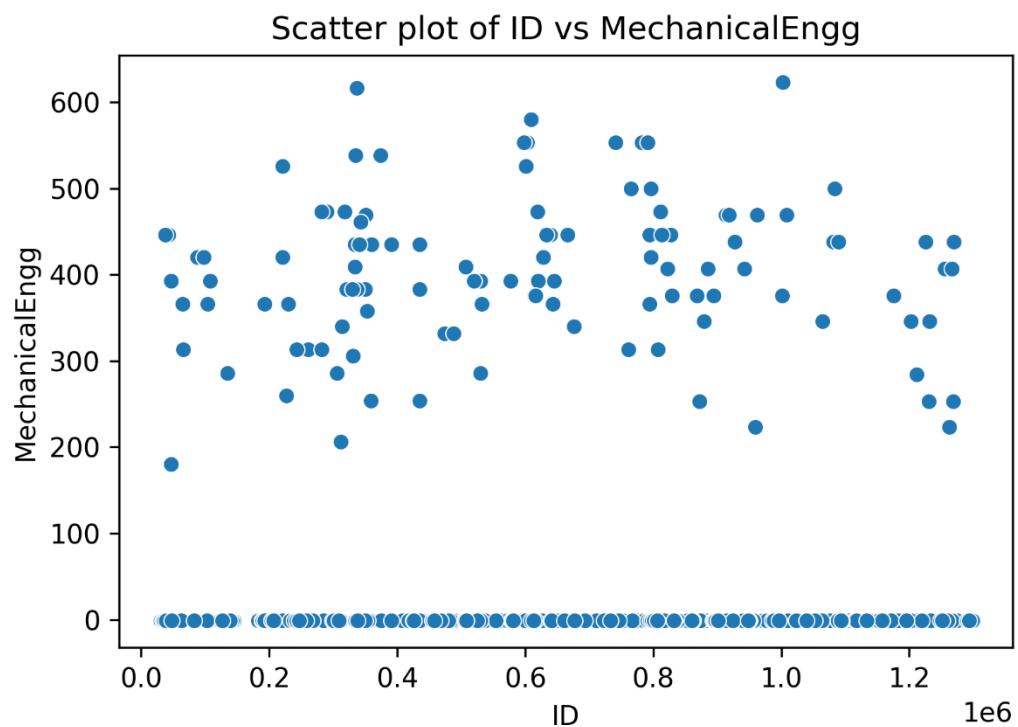


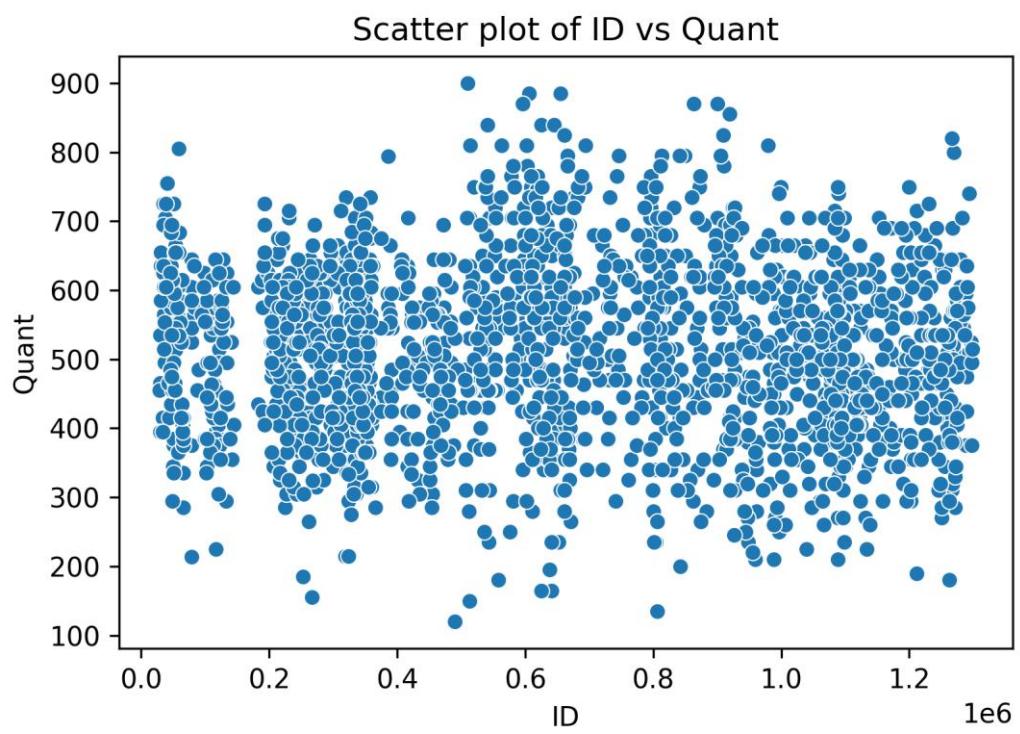
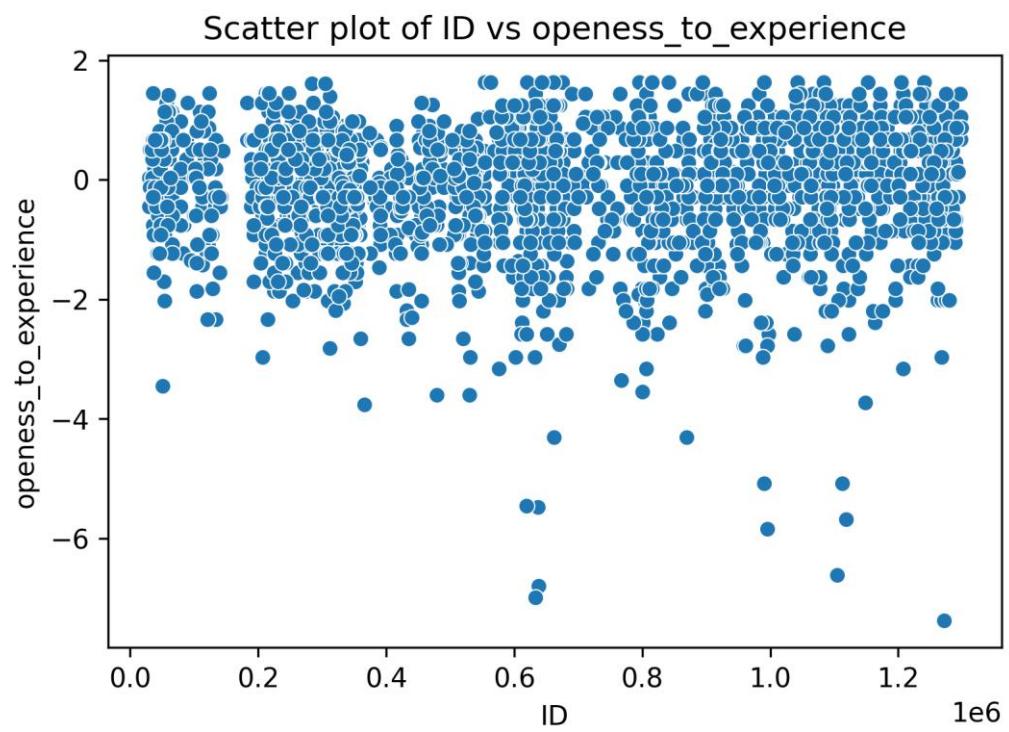
Scatter plot of ID vs GraduationYear

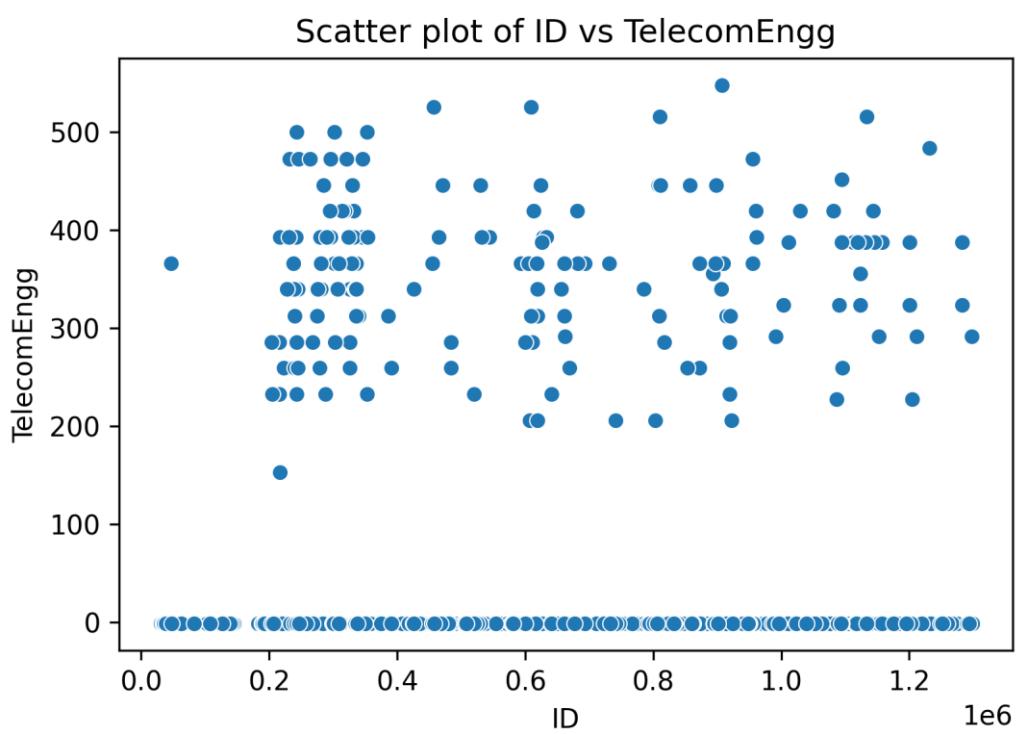
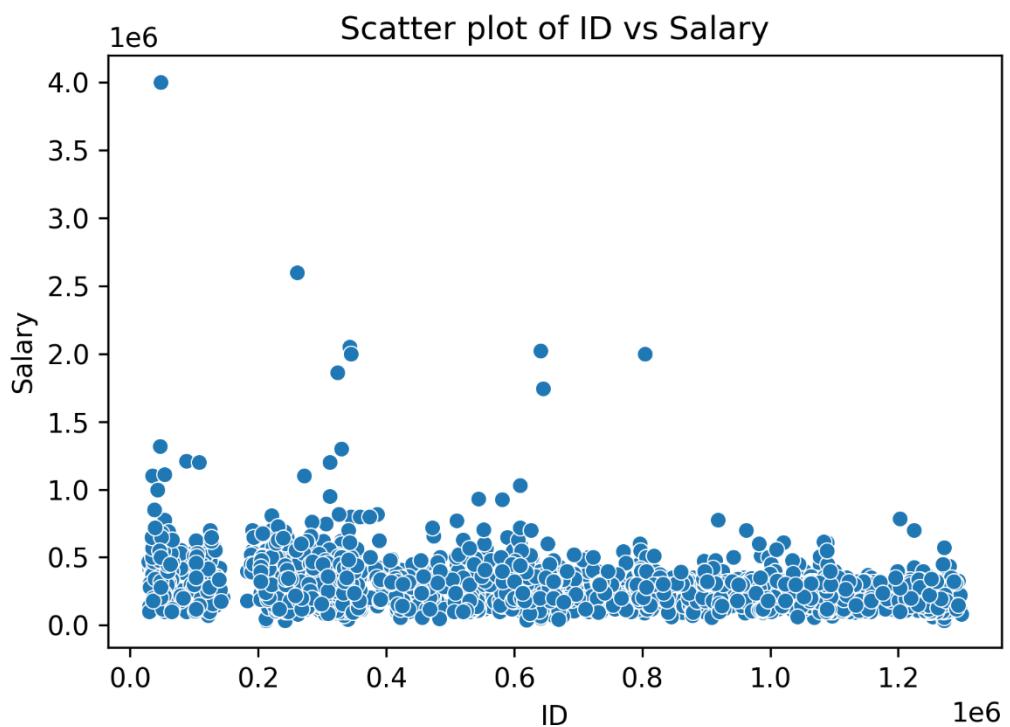


Scatter plot of ID vs Logical

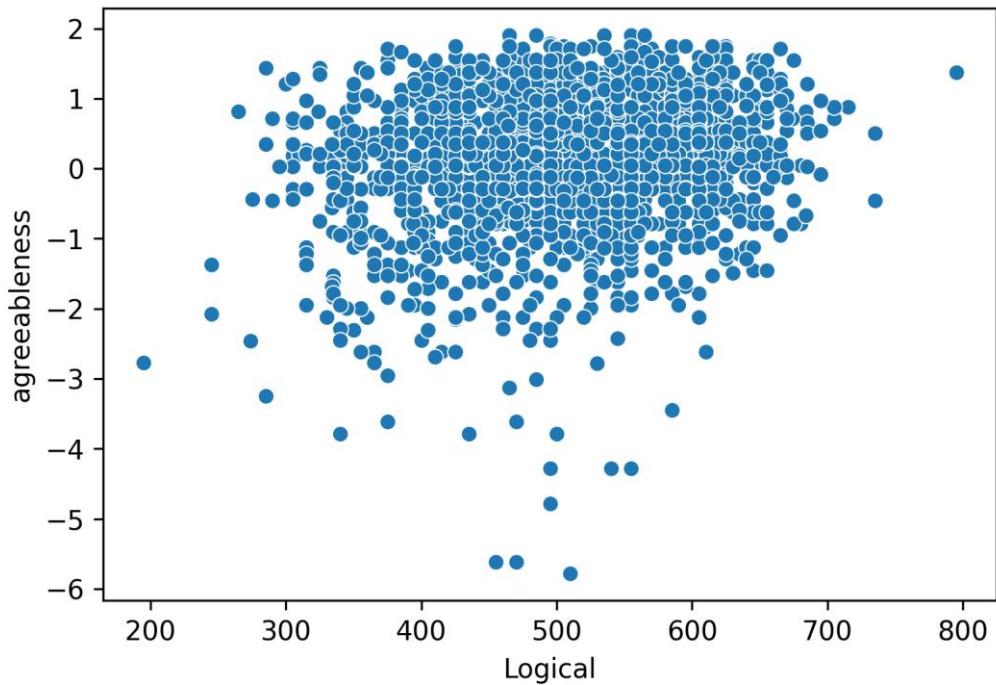




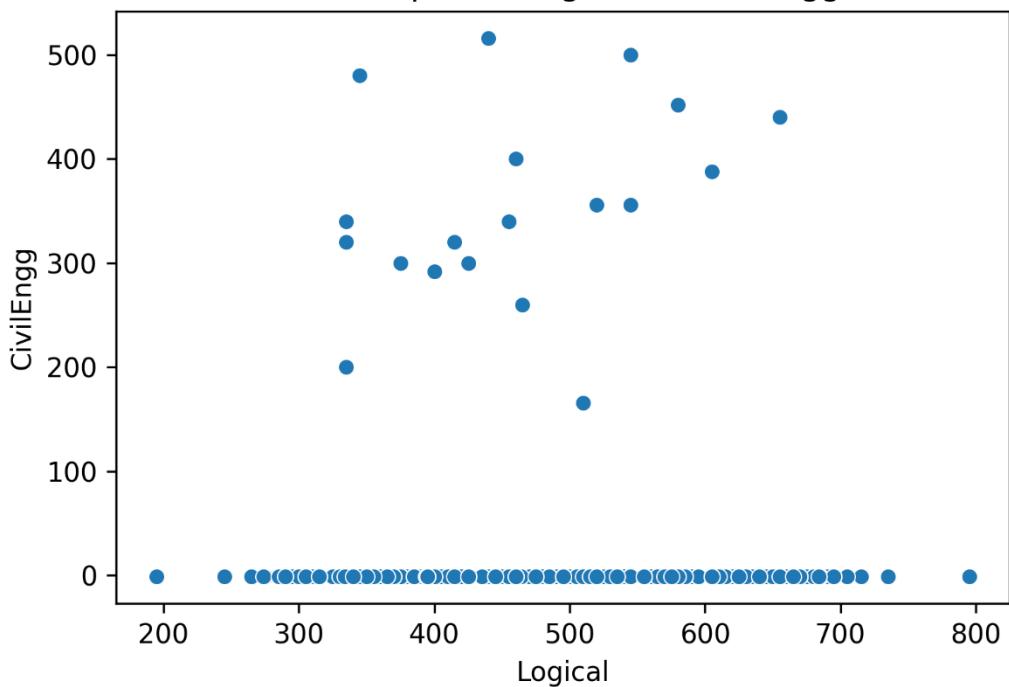




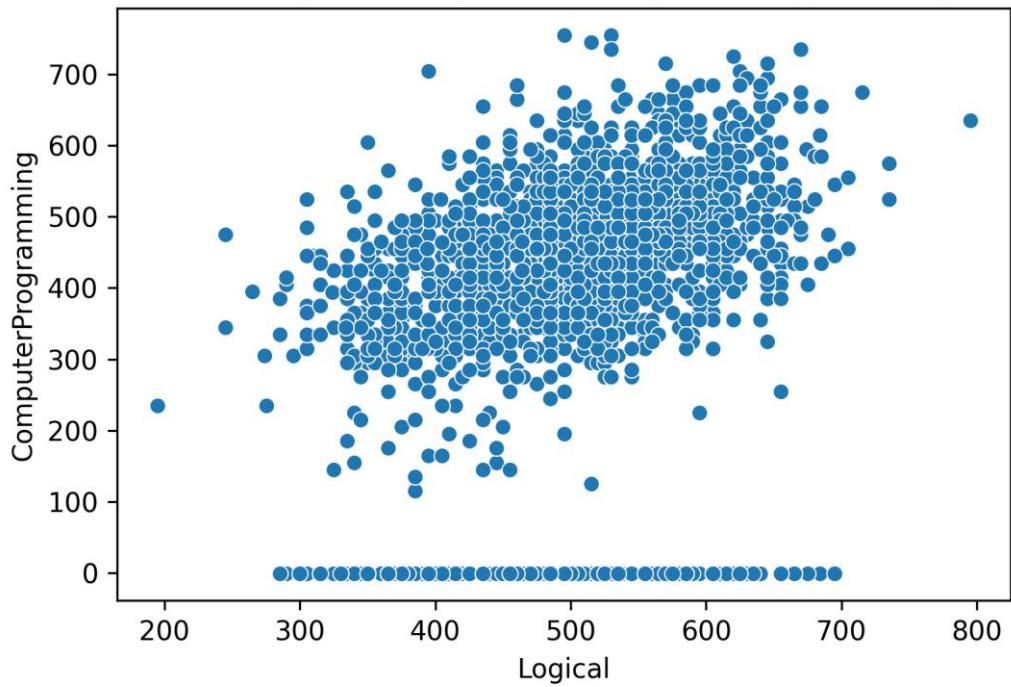
Scatter plot of Logical vs agreeableness



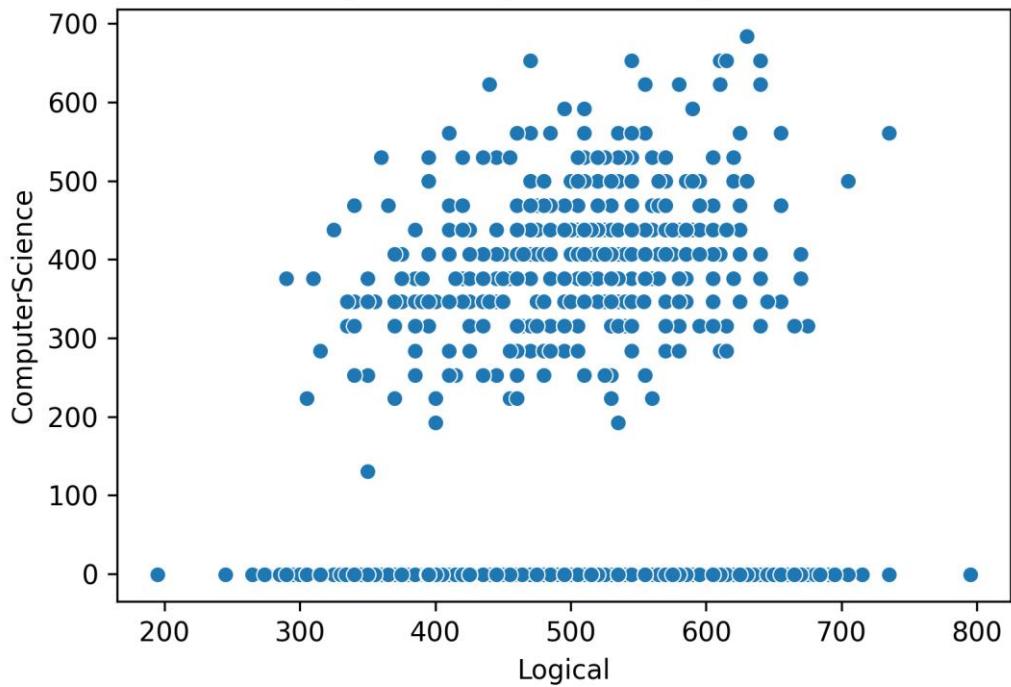
Scatter plot of Logical vs CivilEngg



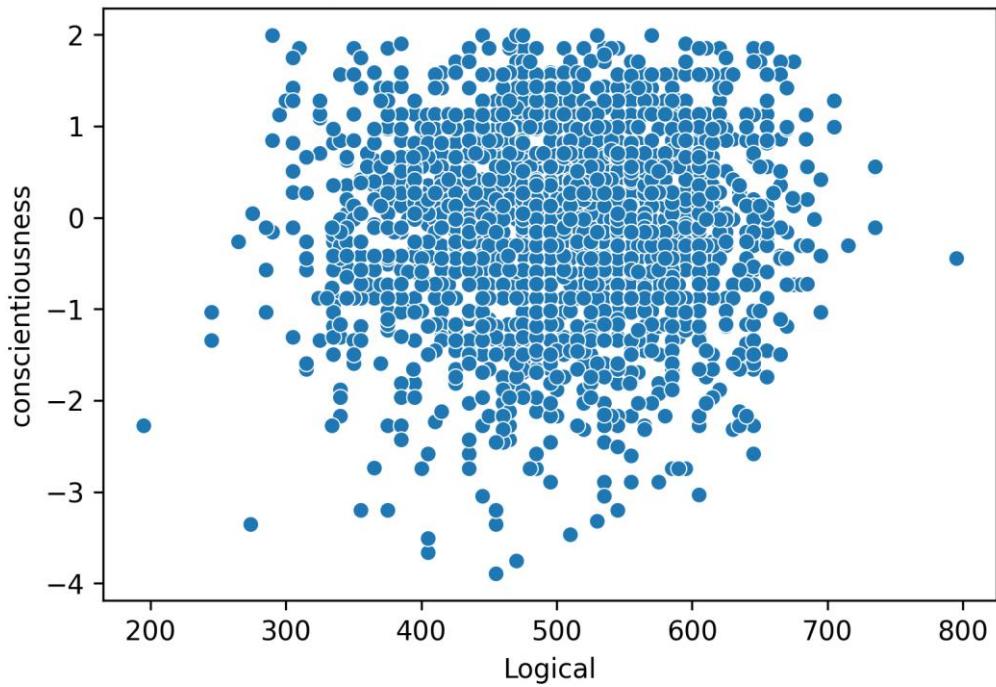
Scatter plot of Logical vs ComputerProgramming



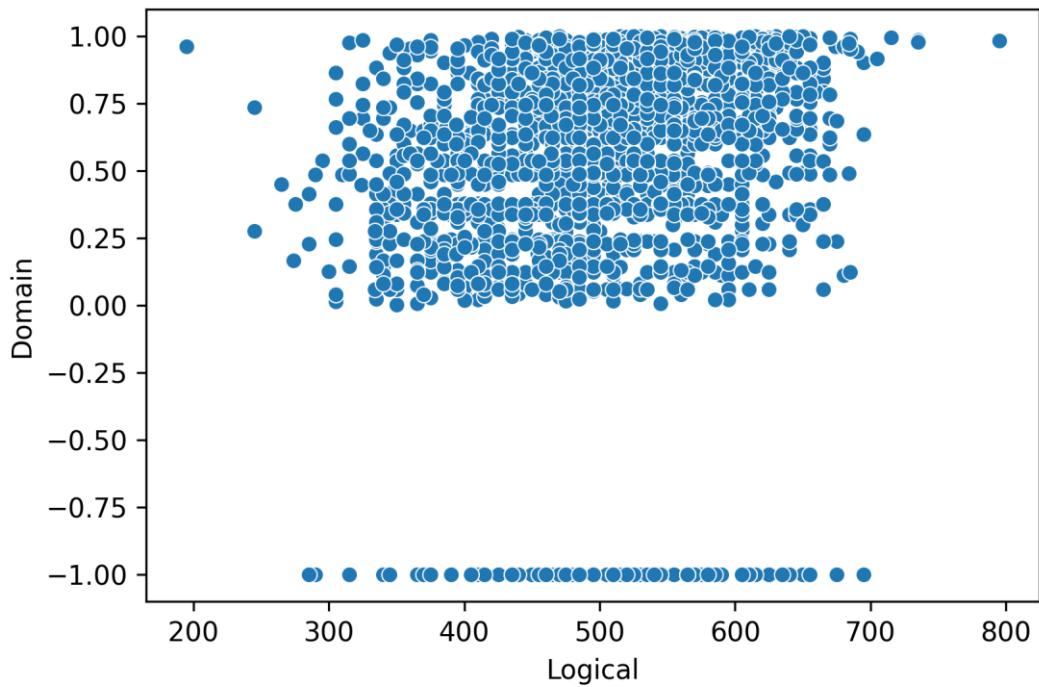
Scatter plot of Logical vs ComputerScience



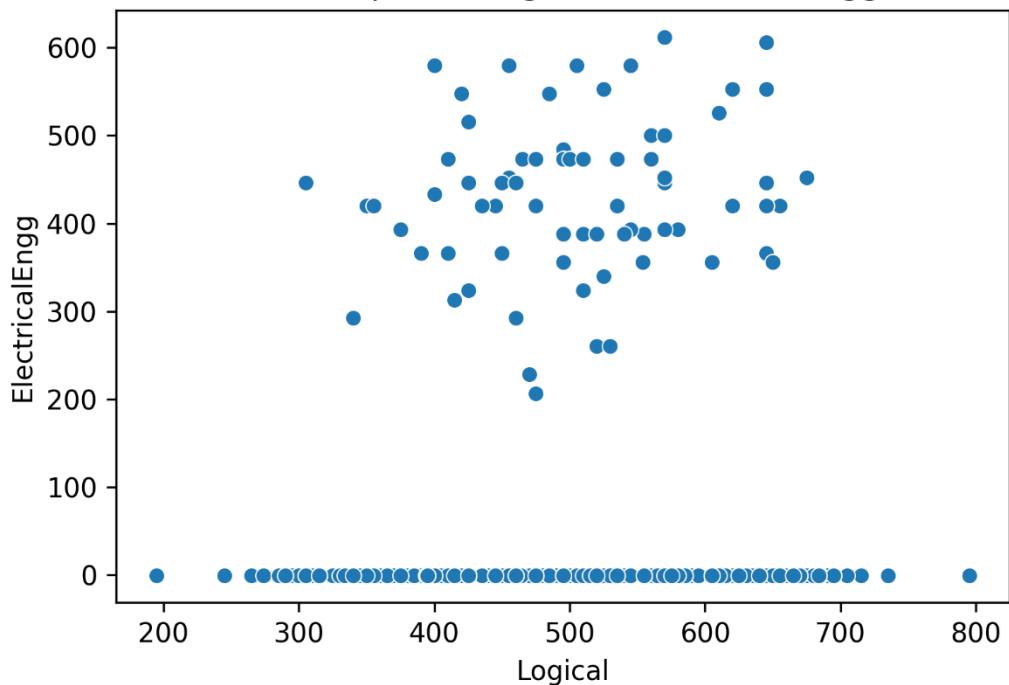
Scatter plot of Logical vs conscientiousness



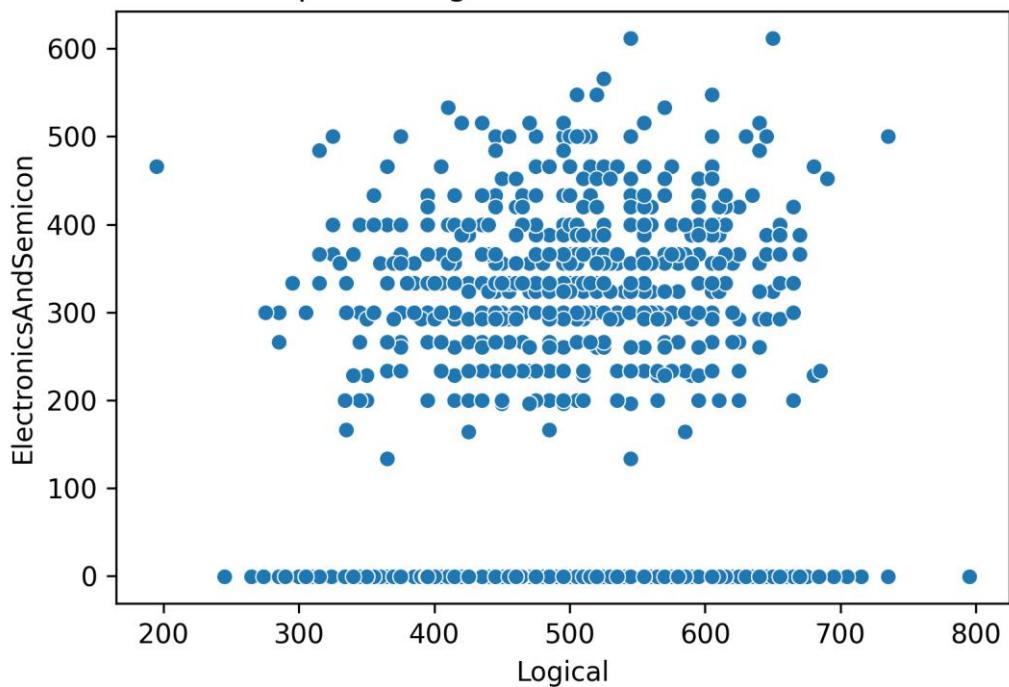
Scatter plot of Logical vs Domain



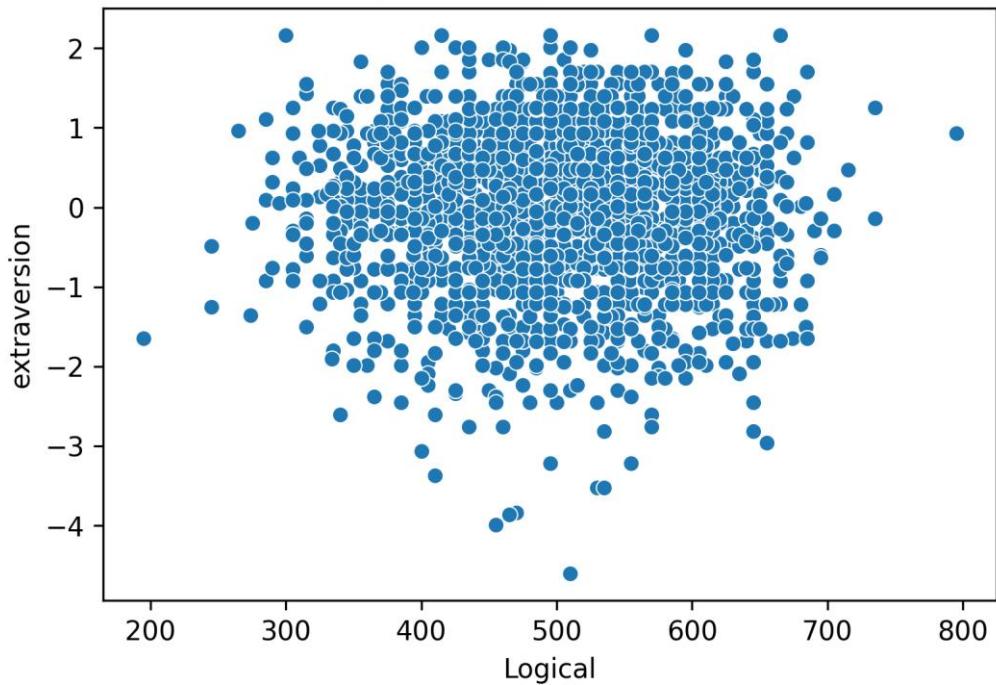
Scatter plot of Logical vs ElectricalEngg



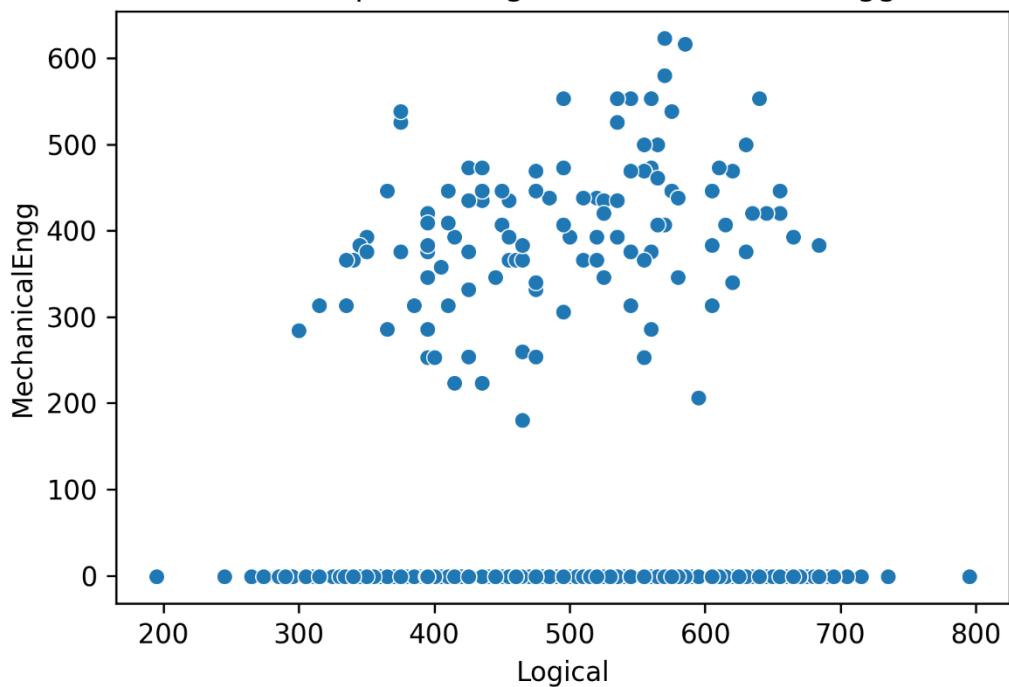
Scatter plot of Logical vs ElectronicsAndSemicon



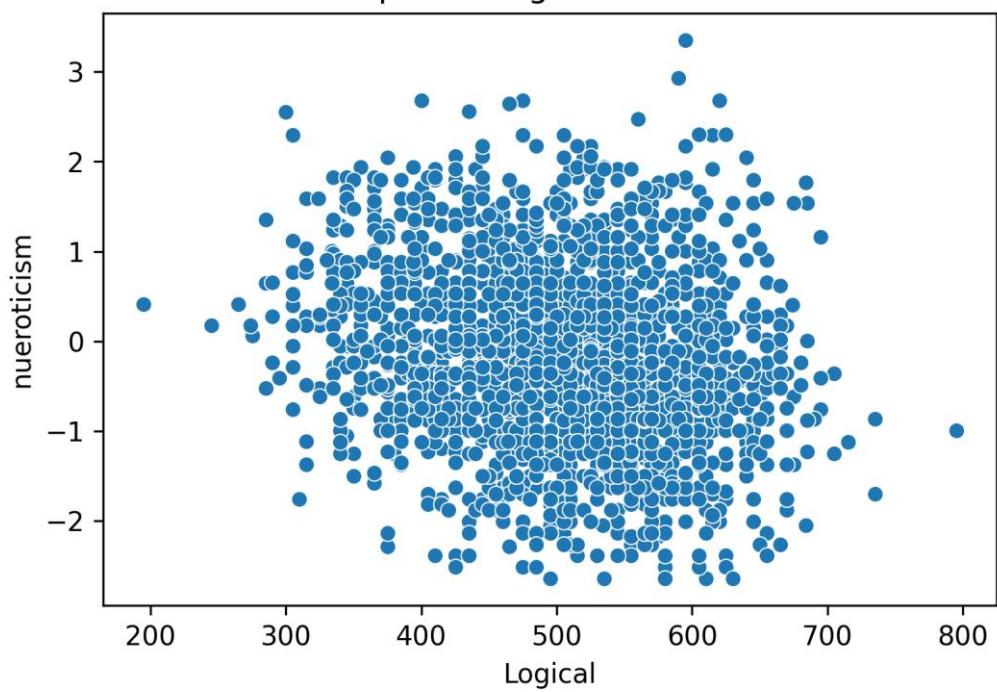
Scatter plot of Logical vs extraversion



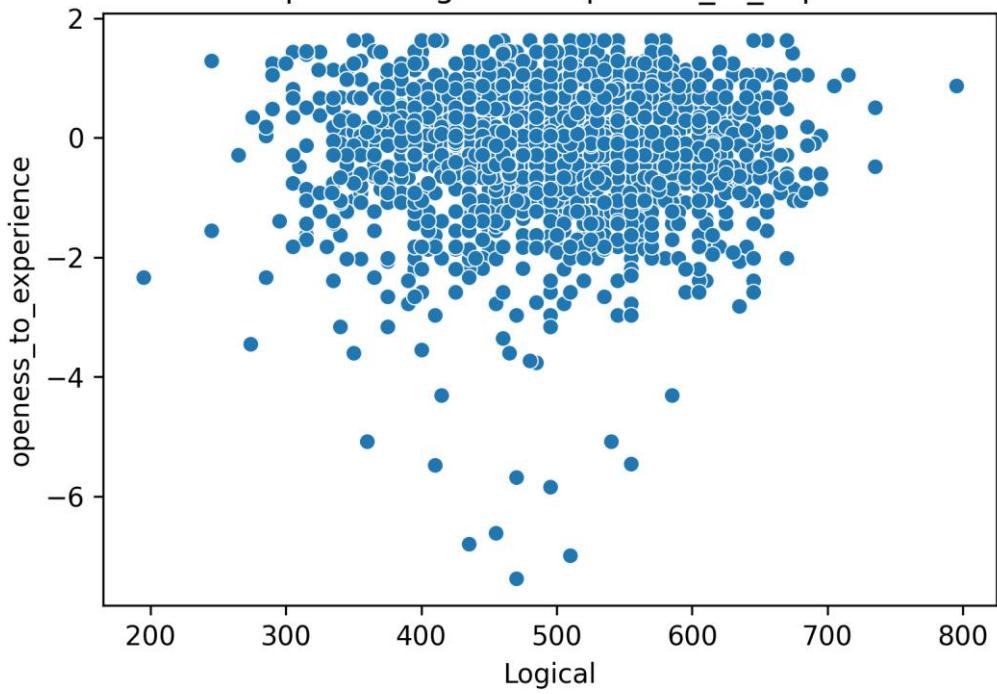
Scatter plot of Logical vs MechanicalEngg



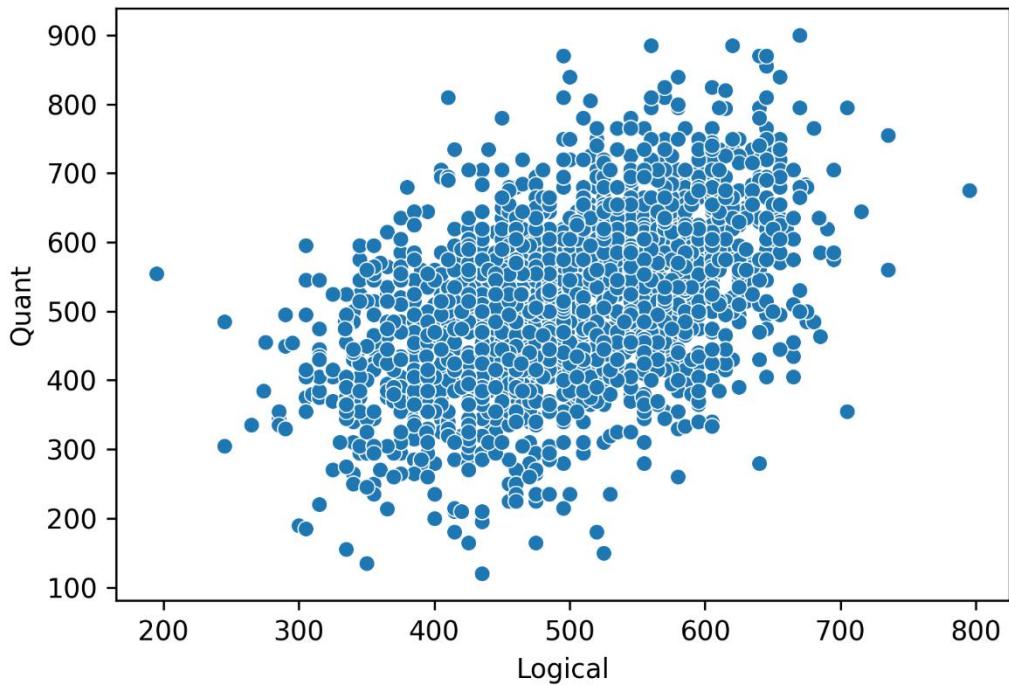
Scatter plot of Logical vs nueroticism



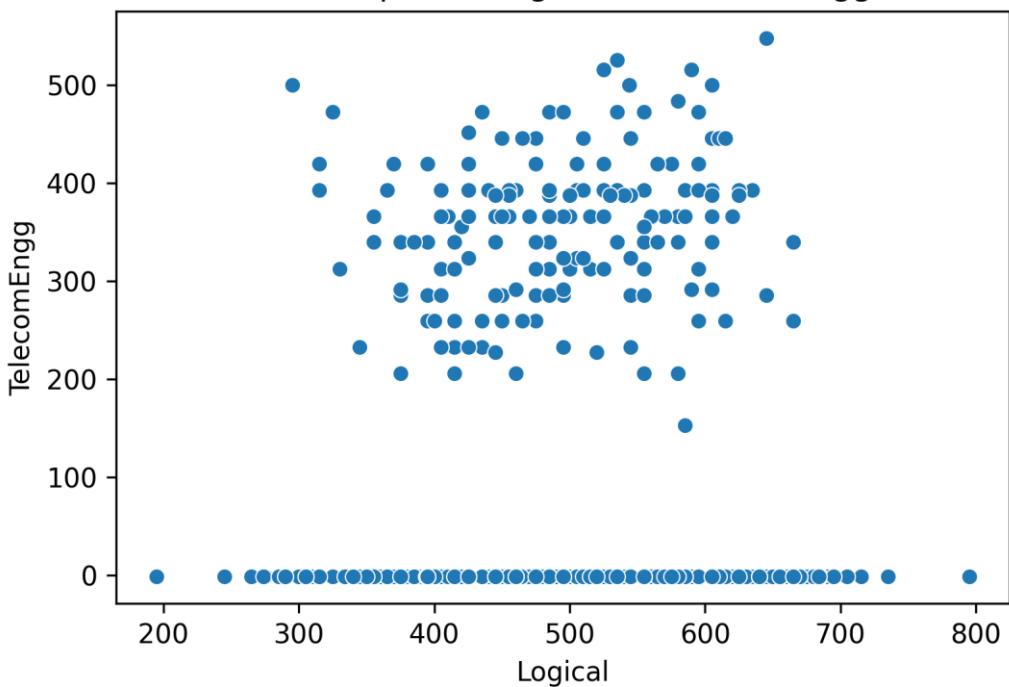
Scatter plot of Logical vs openness_to_experience



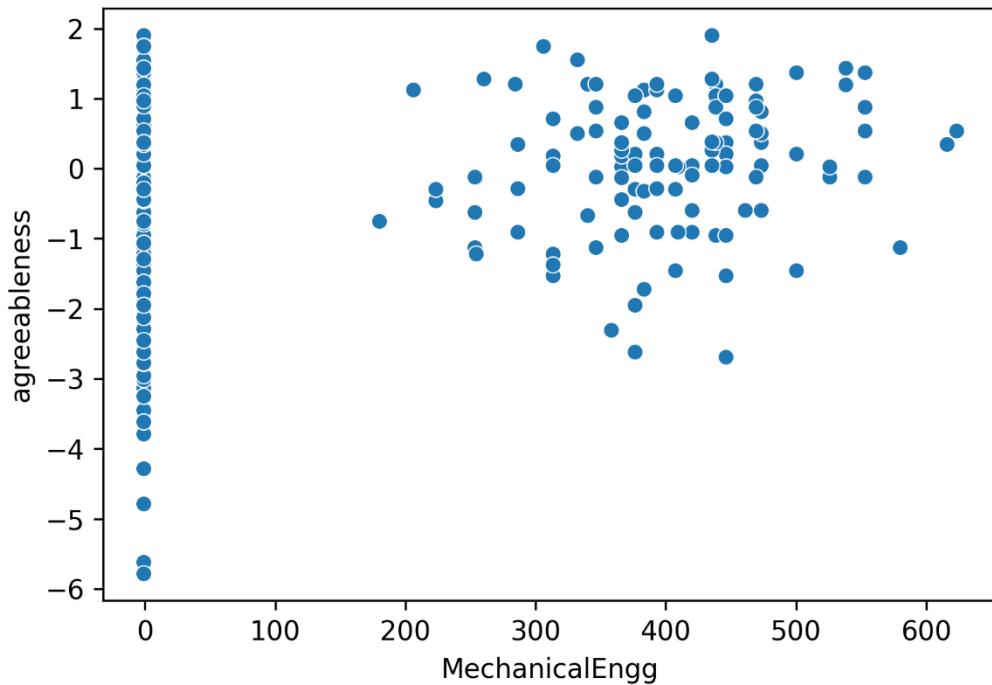
Scatter plot of Logical vs Quant



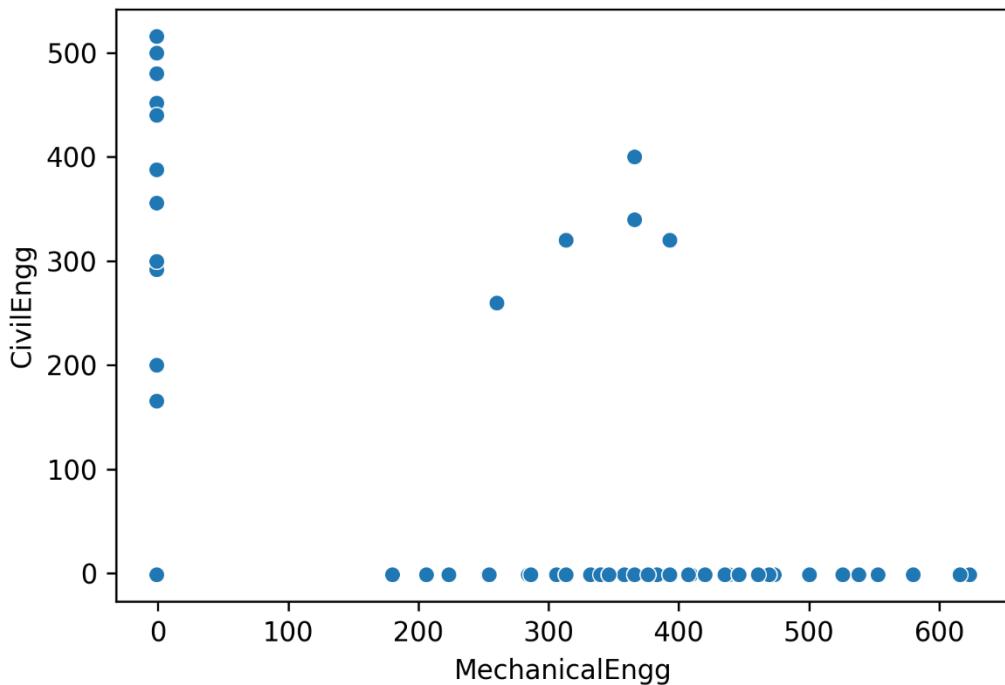
Scatter plot of Logical vs TelecomEngg



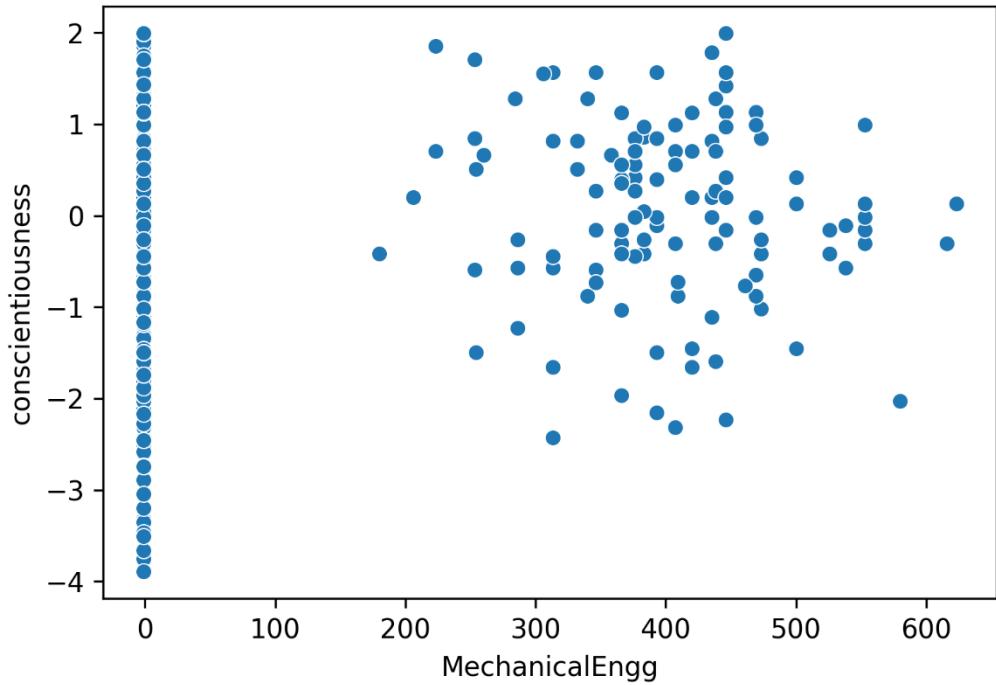
Scatter plot of MechanicalEngg vs agreeableness



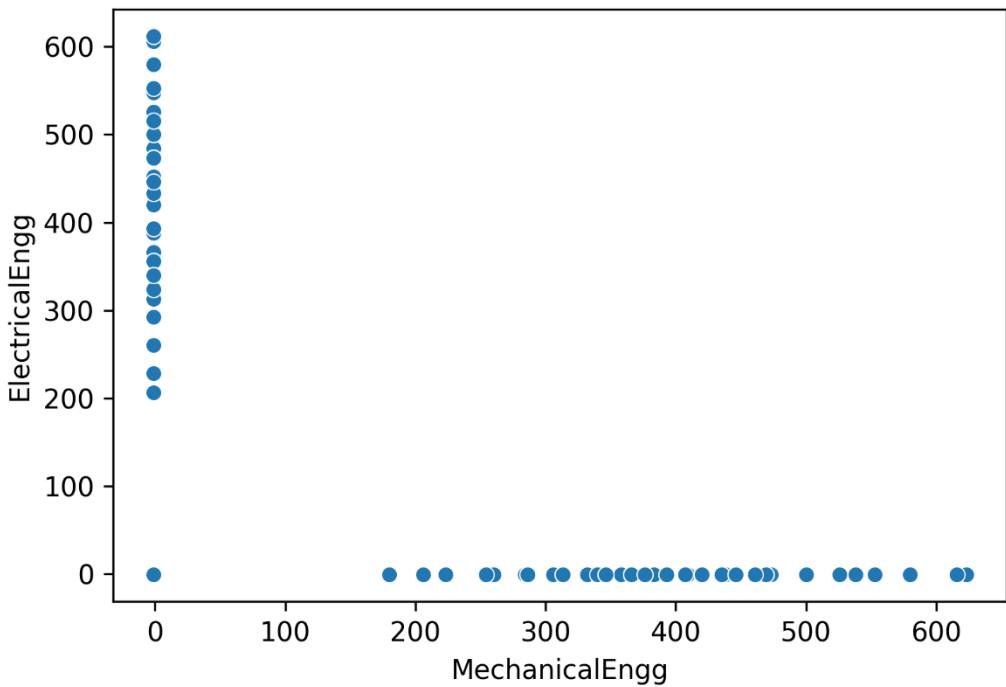
Scatter plot of MechanicalEngg vs CivilEngg



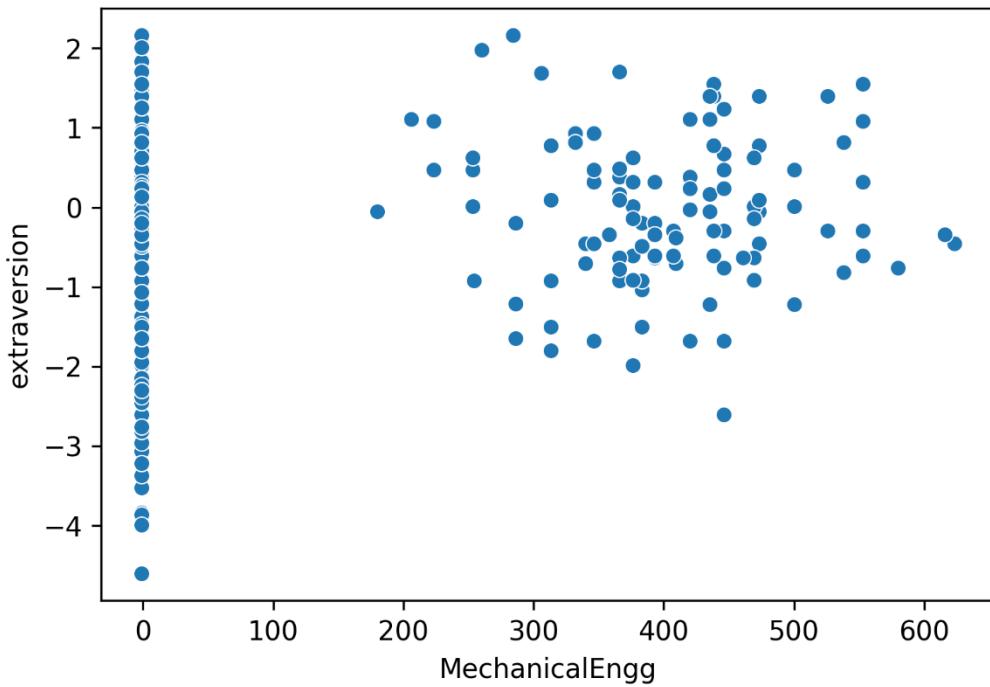
Scatter plot of MechanicalEngg vs conscientiousness



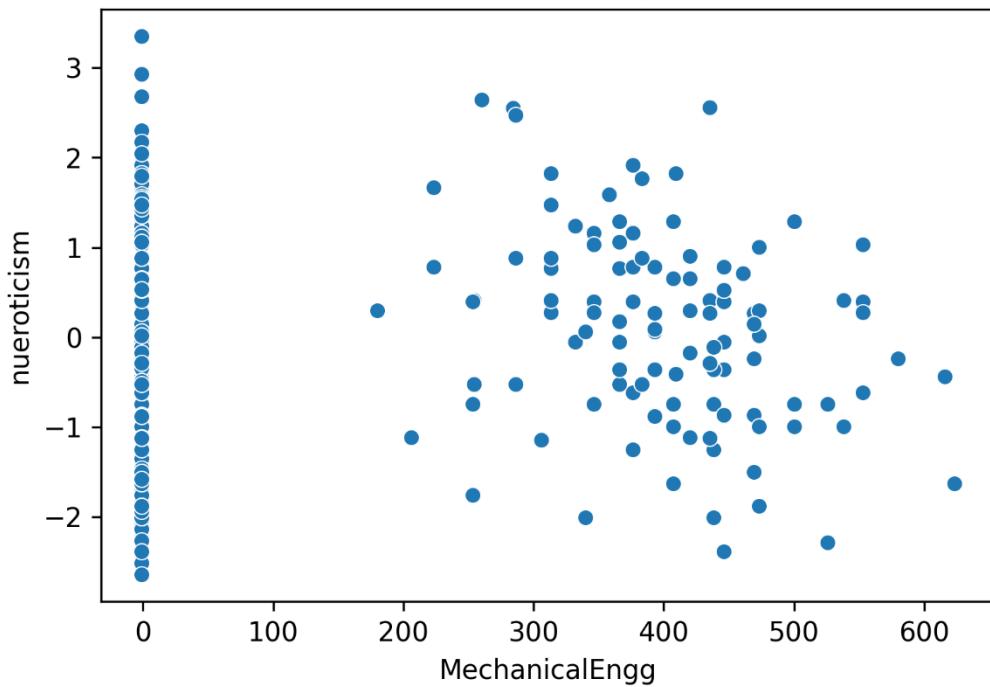
Scatter plot of MechanicalEngg vs ElectricalEngg



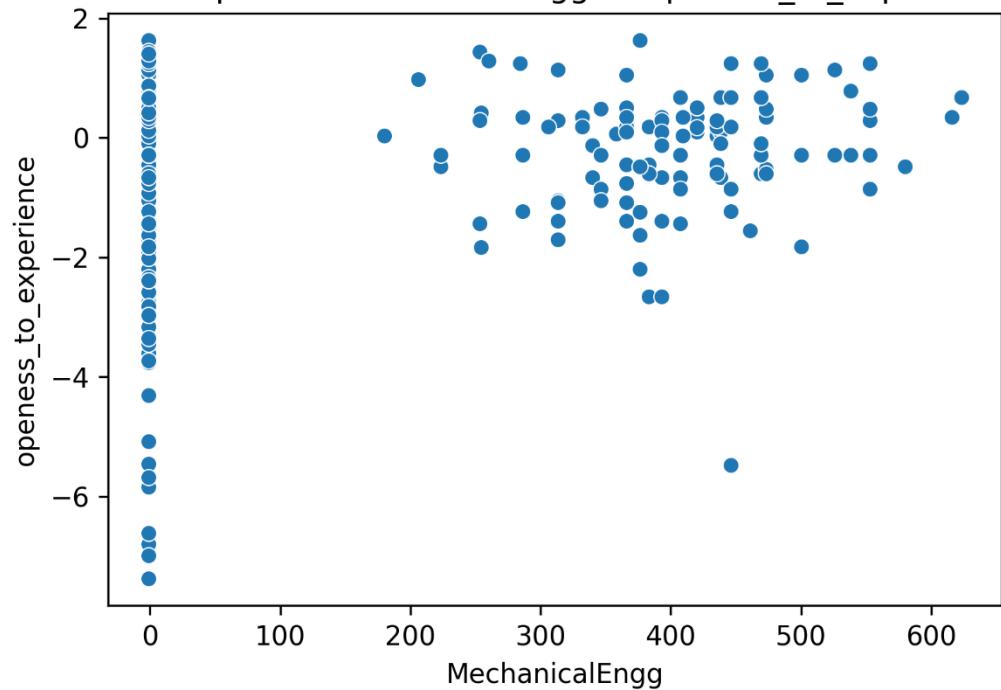
Scatter plot of MechanicalEngg vs extraversion



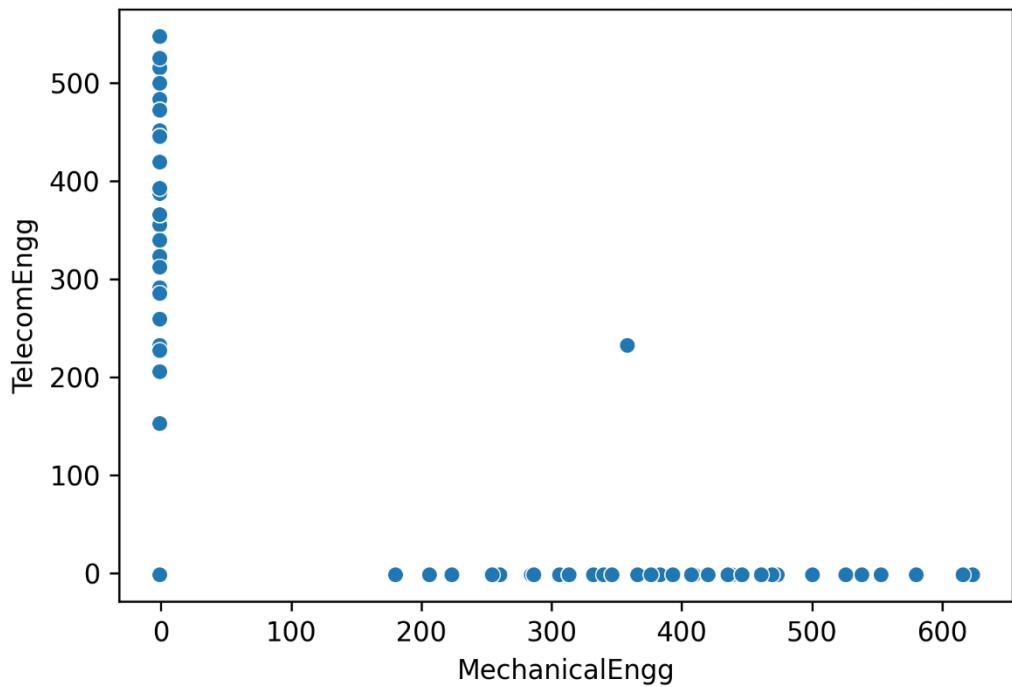
Scatter plot of MechanicalEngg vs nuerotism



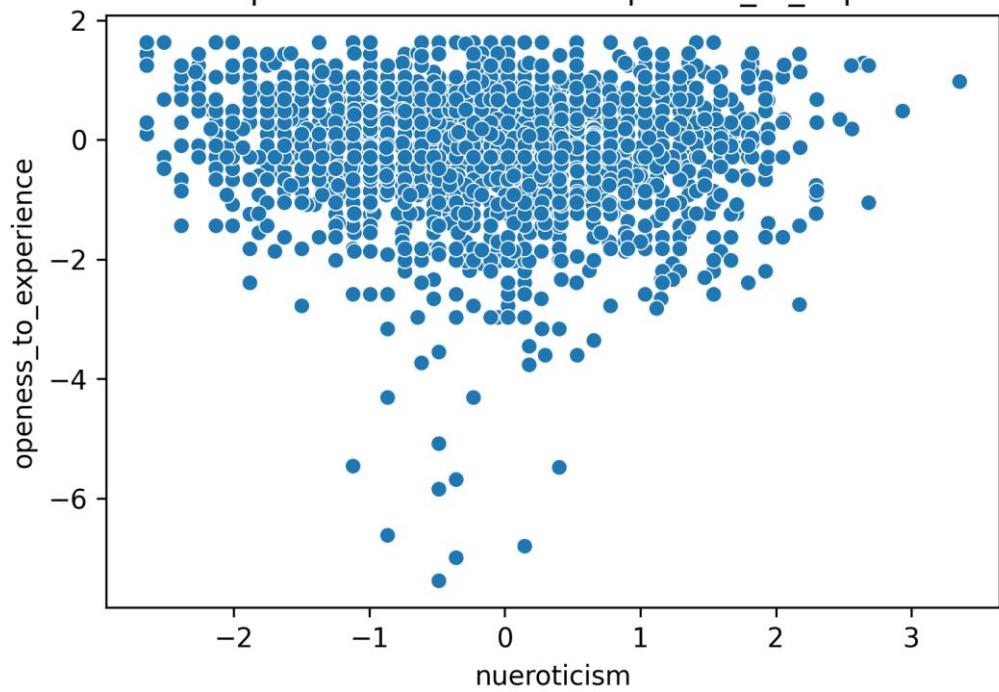
Scatter plot of MechanicalEngg vs openness_to_experience

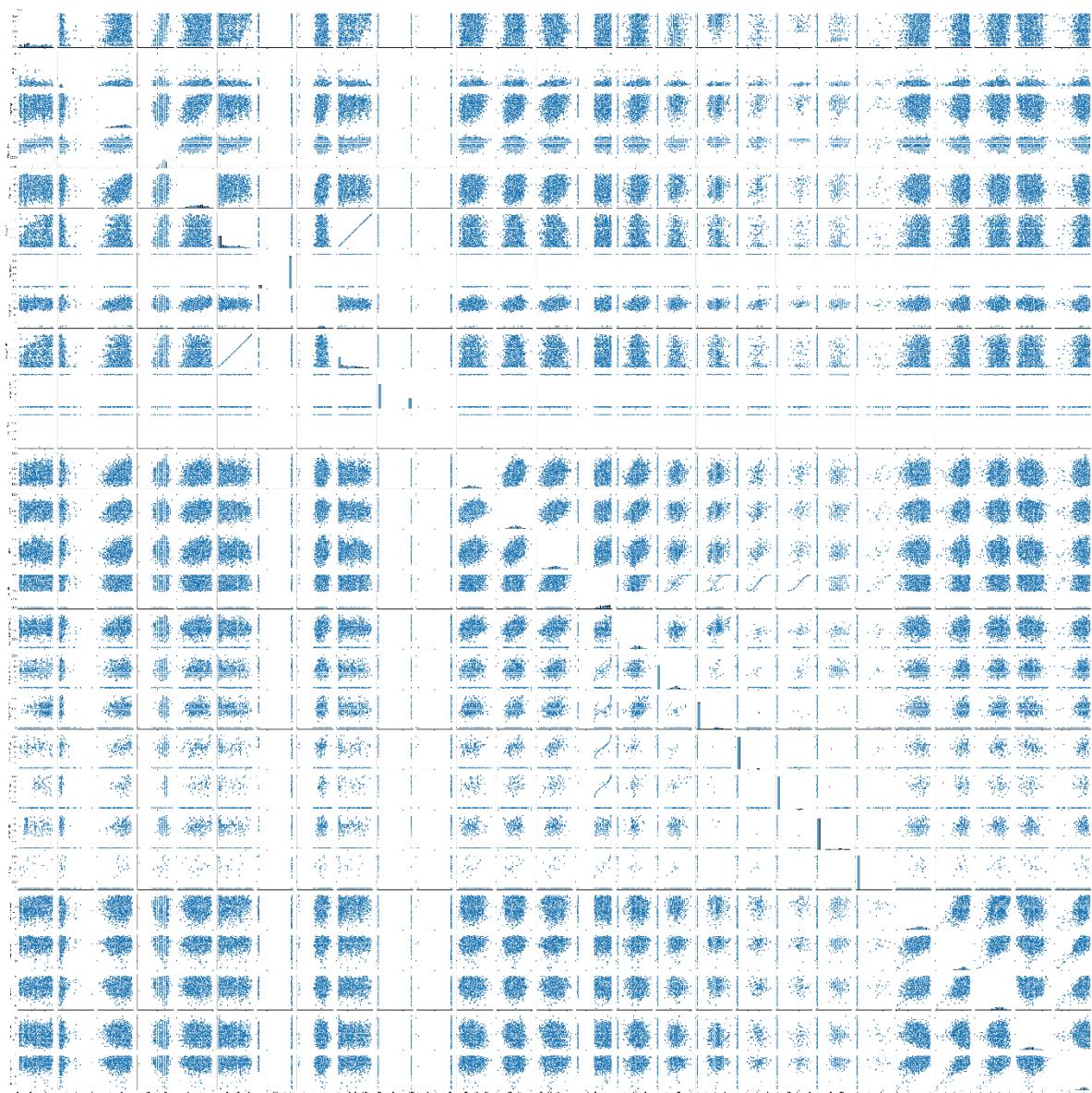


Scatter plot of MechanicalEngg vs TelecomEngg

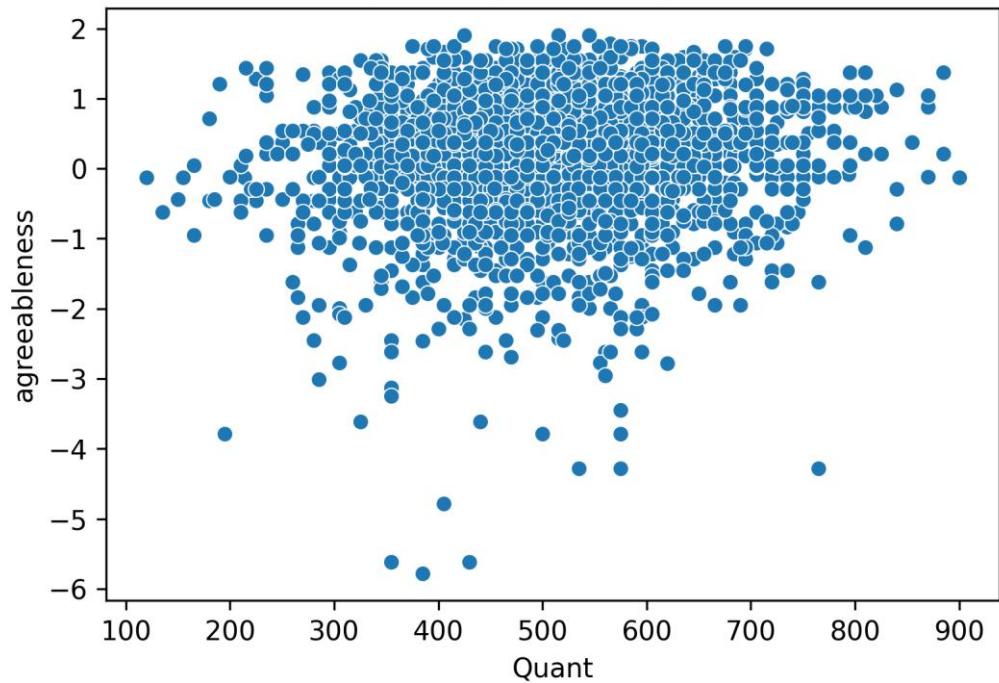


Scatter plot of nueroticism vs openness_to_experience

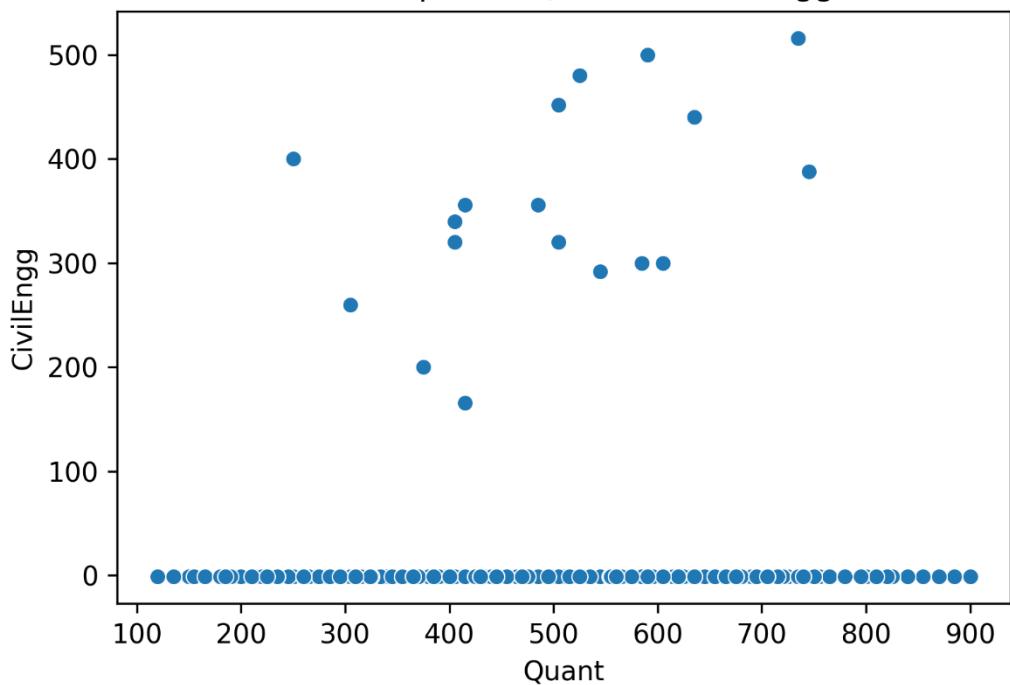




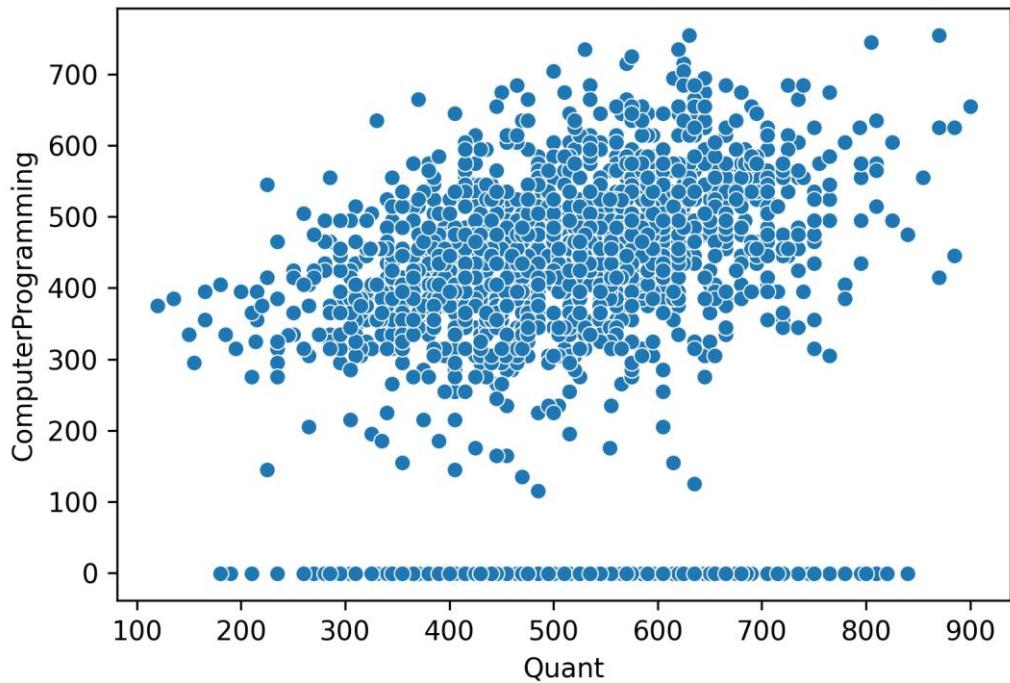
Scatter plot of Quant vs agreeableness



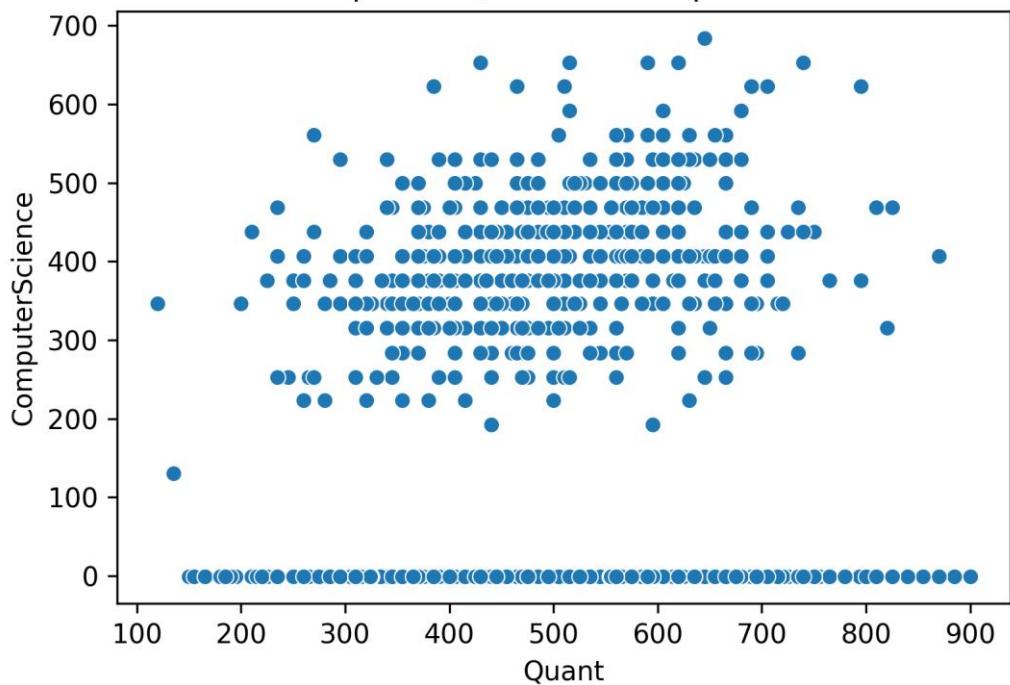
Scatter plot of Quant vs CivilEngg



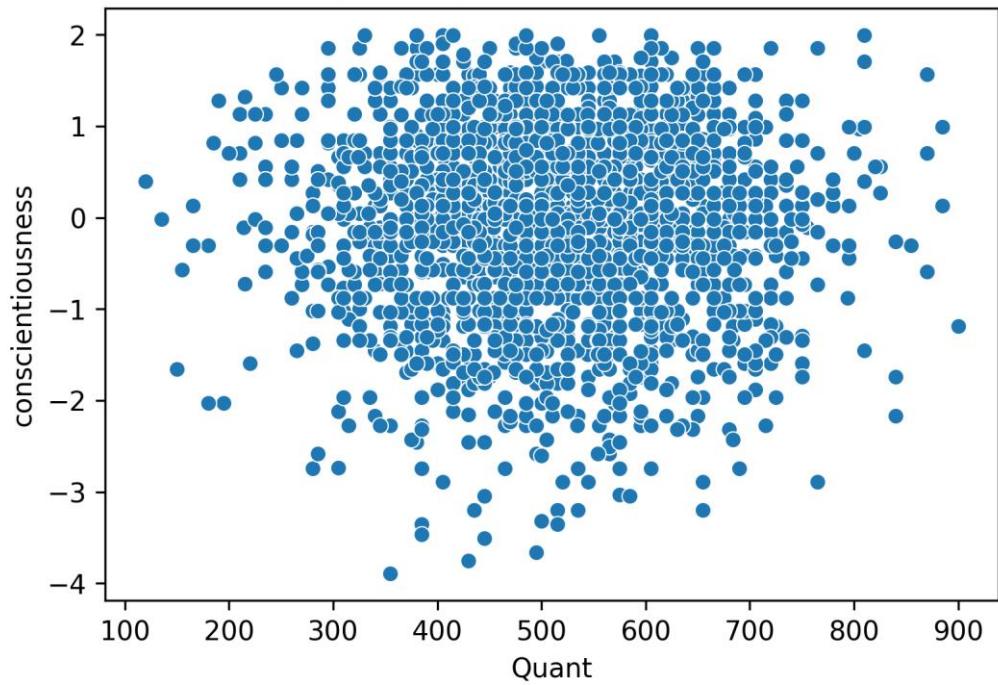
Scatter plot of Quant vs ComputerProgramming



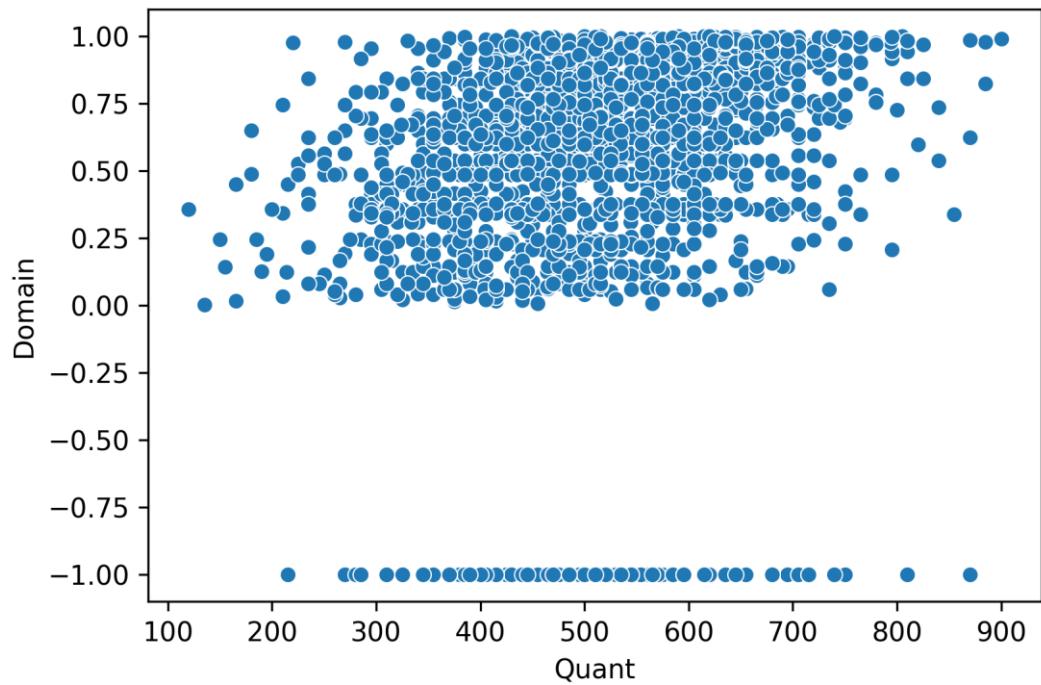
Scatter plot of Quant vs ComputerScience



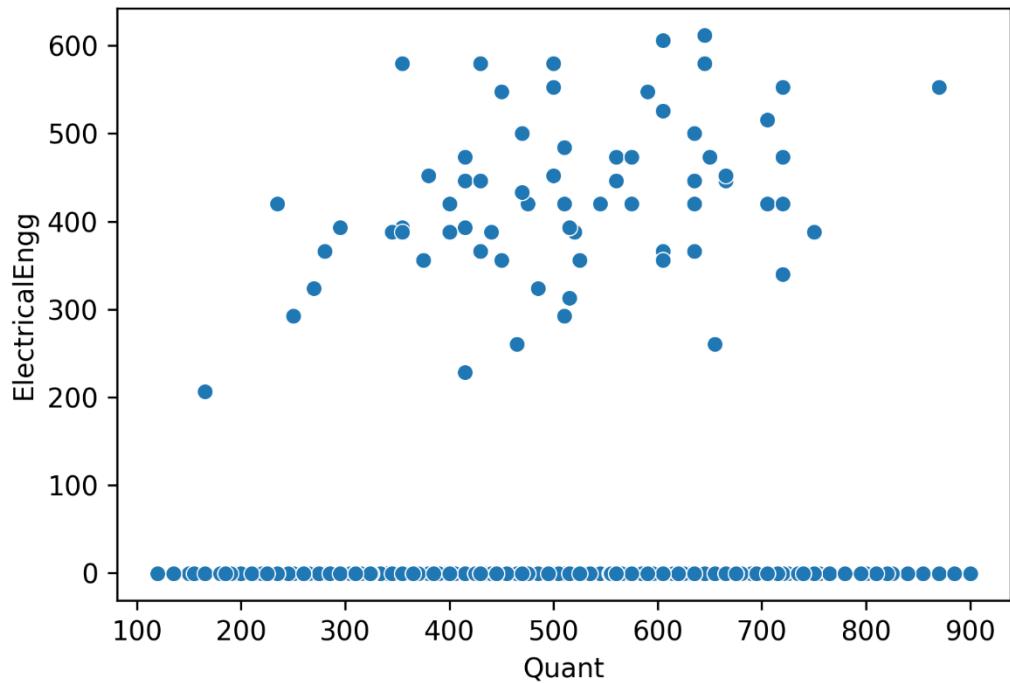
Scatter plot of Quant vs conscientiousness



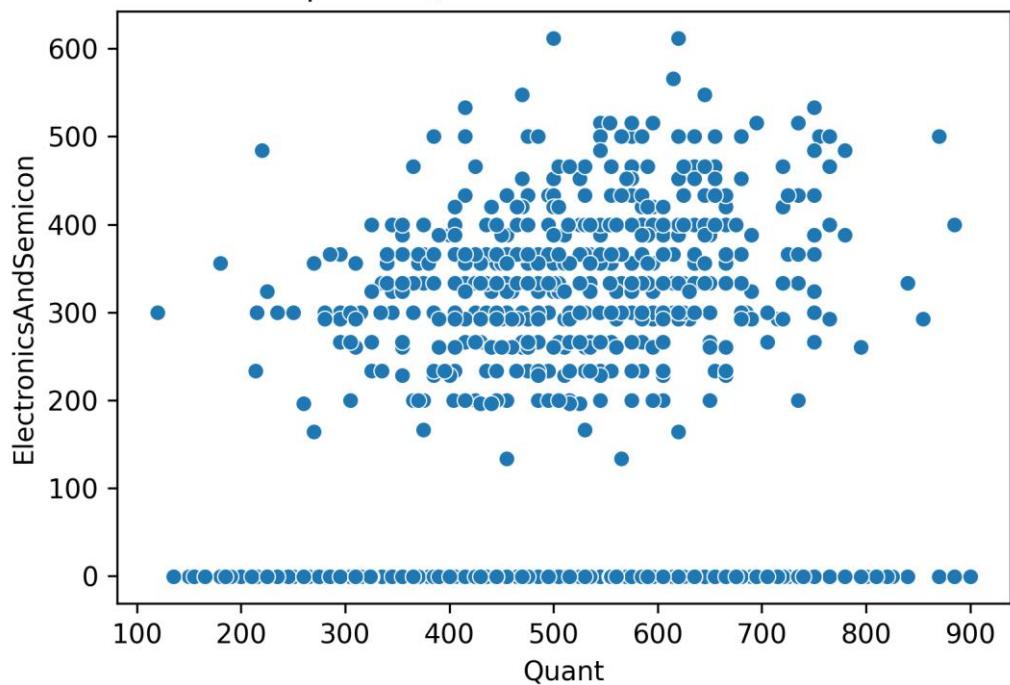
Scatter plot of Quant vs Domain



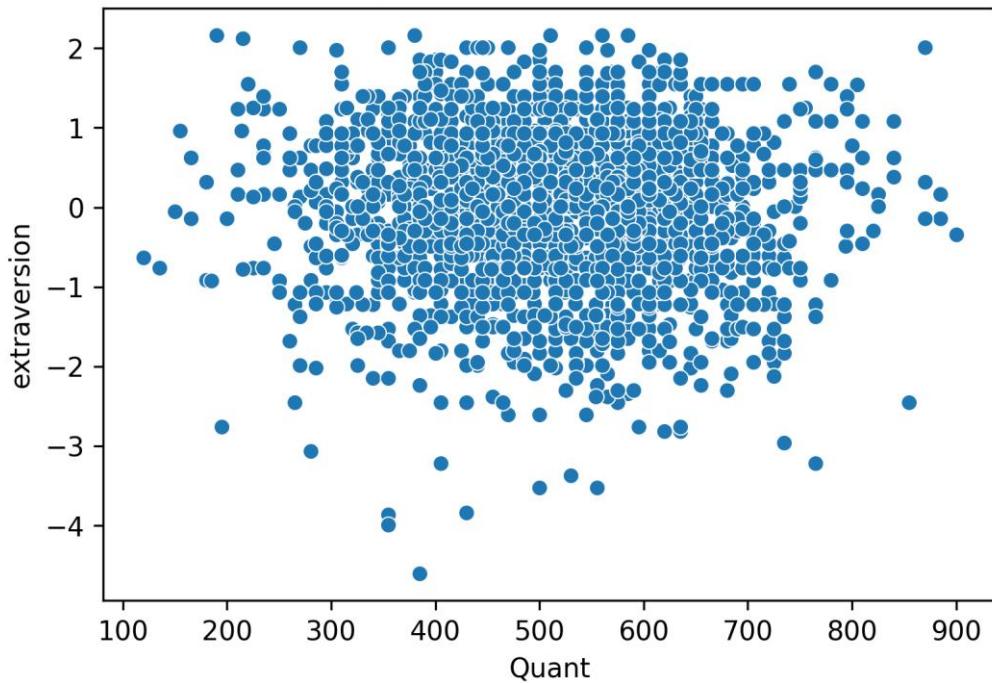
Scatter plot of Quant vs ElectricalEngg



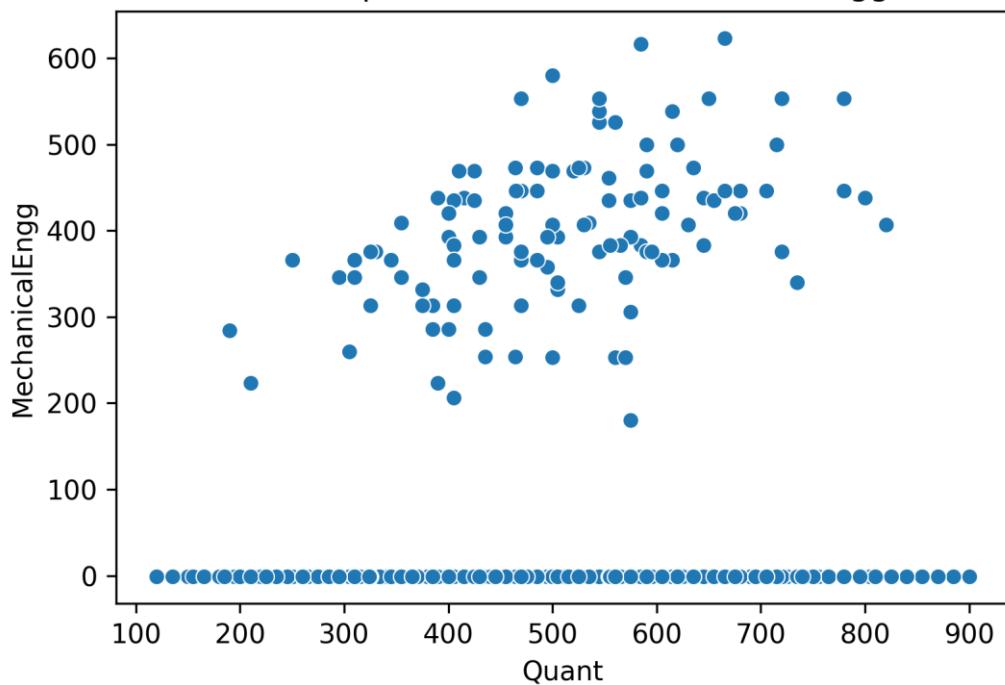
Scatter plot of Quant vs ElectronicsAndSemicon



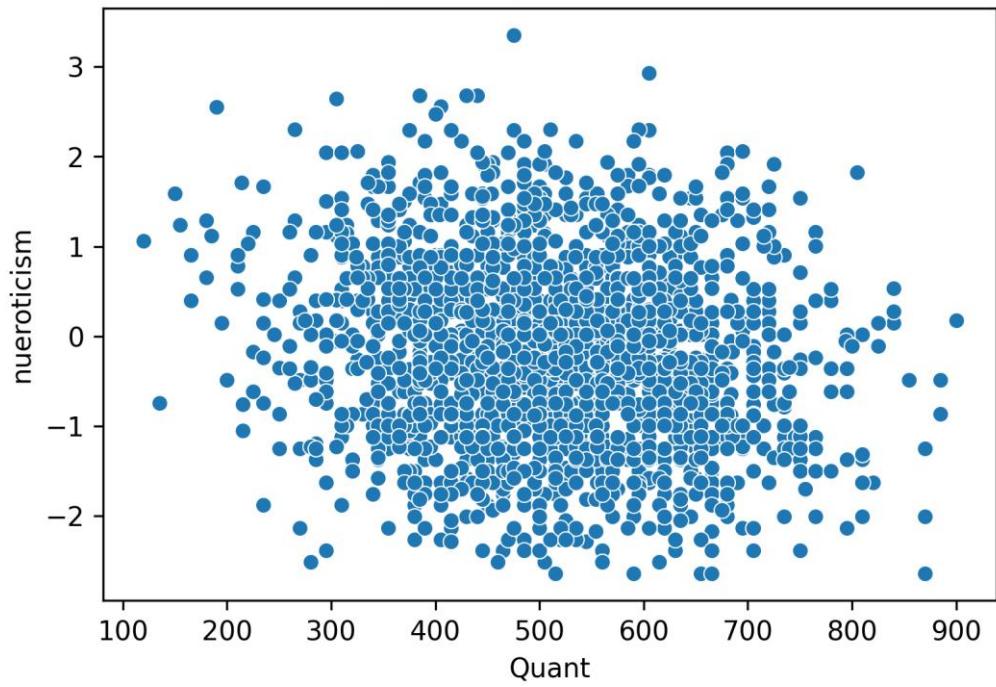
Scatter plot of Quant vs extraversion



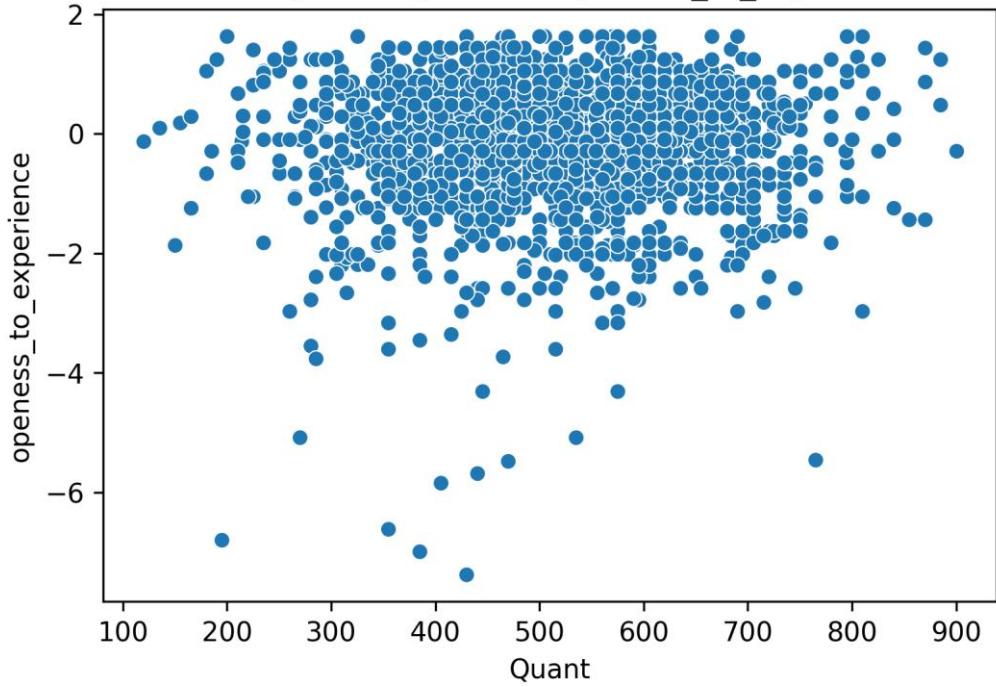
Scatter plot of Quant vs MechanicalEngg



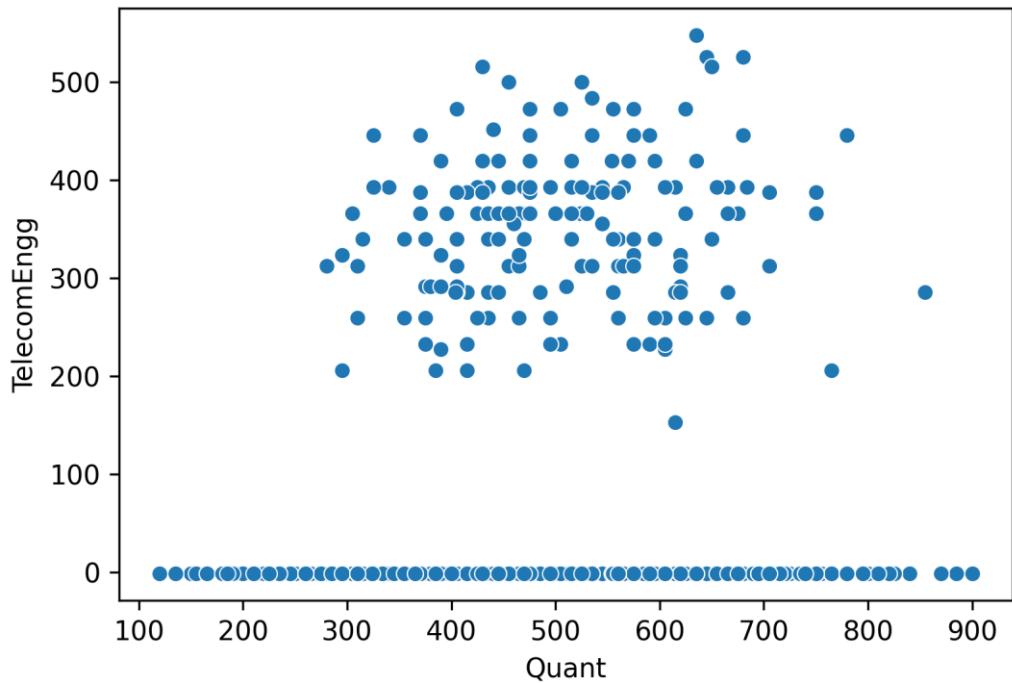
Scatter plot of Quant vs nueroticism



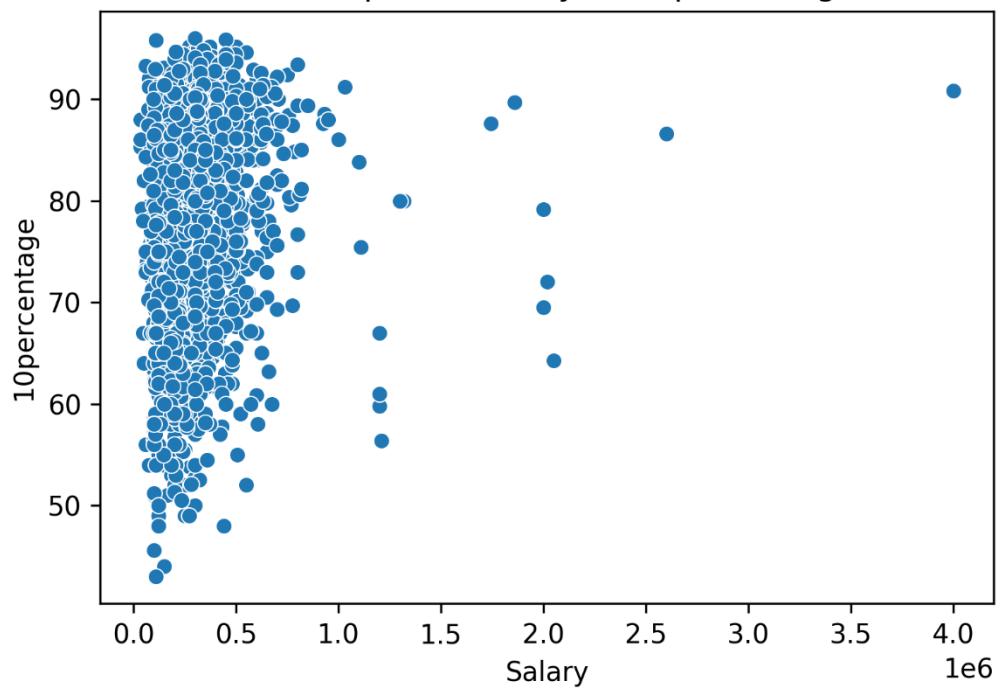
Scatter plot of Quant vs openness_to_experience



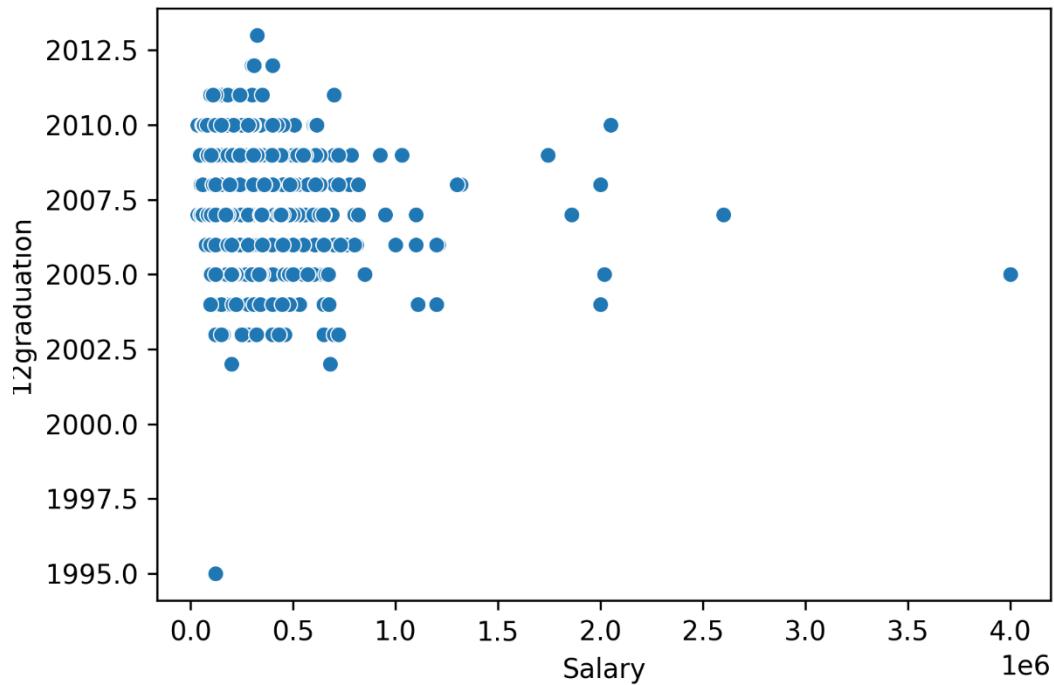
Scatter plot of Quant vs TelecomEngg



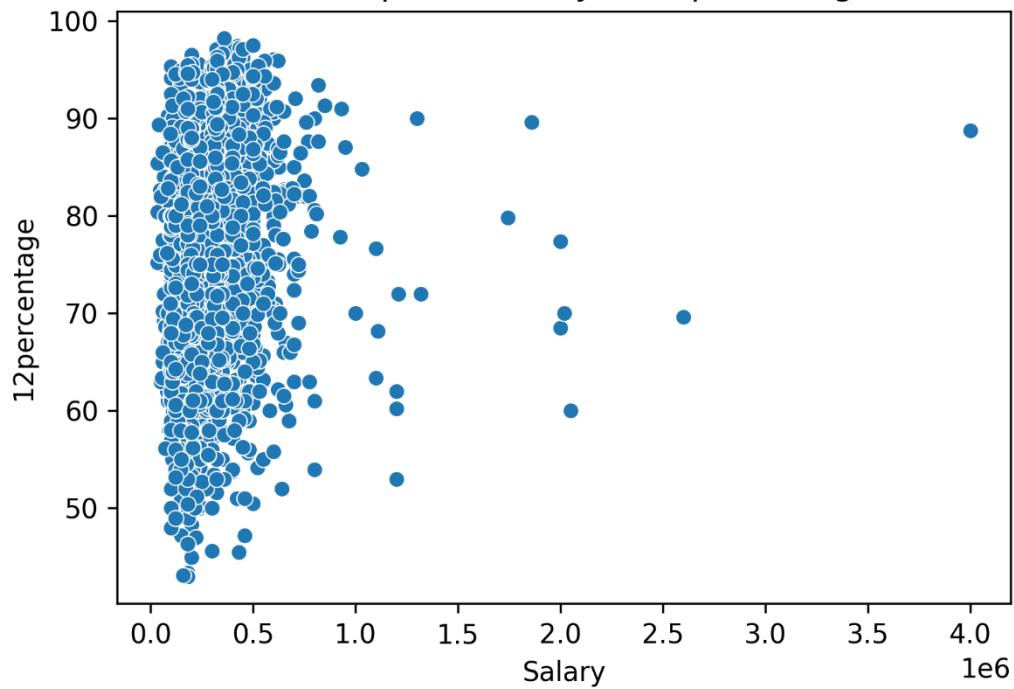
Scatter plot of Salary vs 10percentage



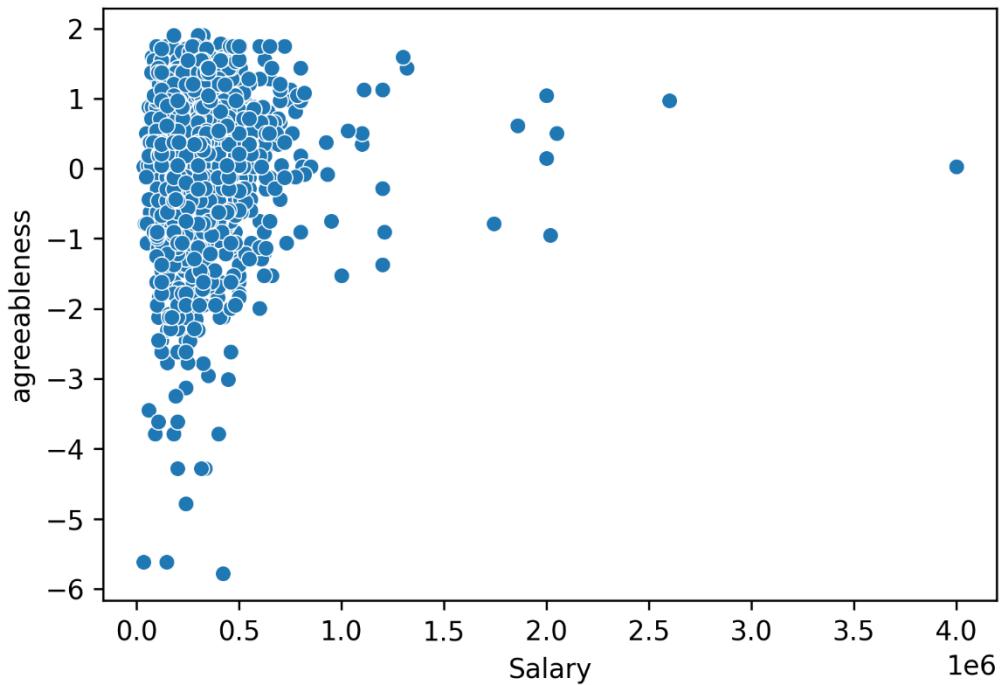
Scatter plot of Salary vs 12graduation



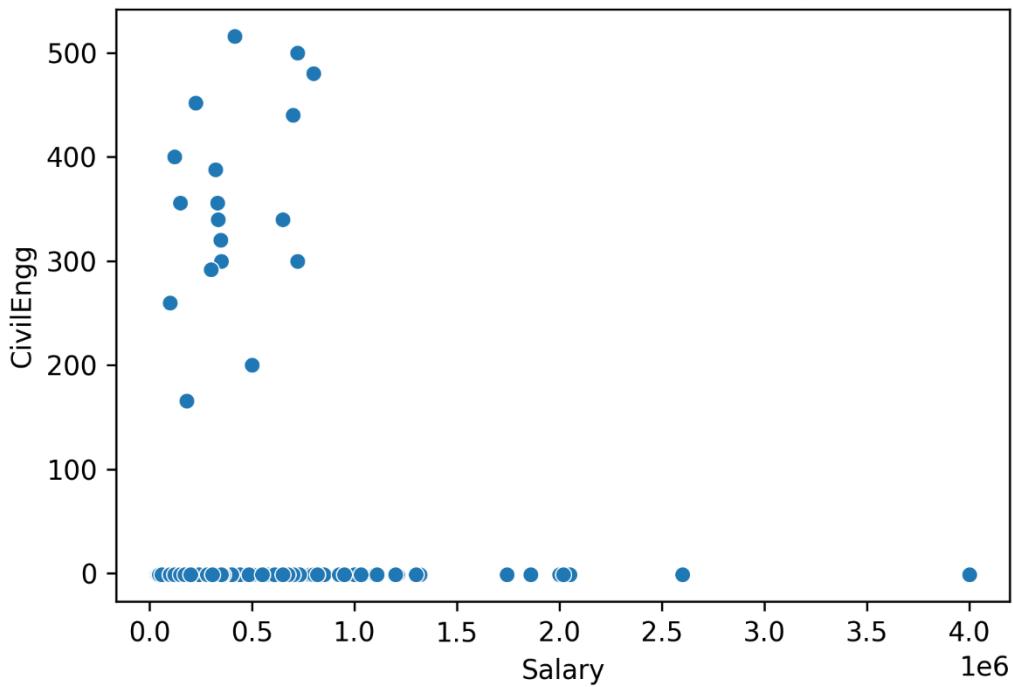
Scatter plot of Salary vs 12percentage



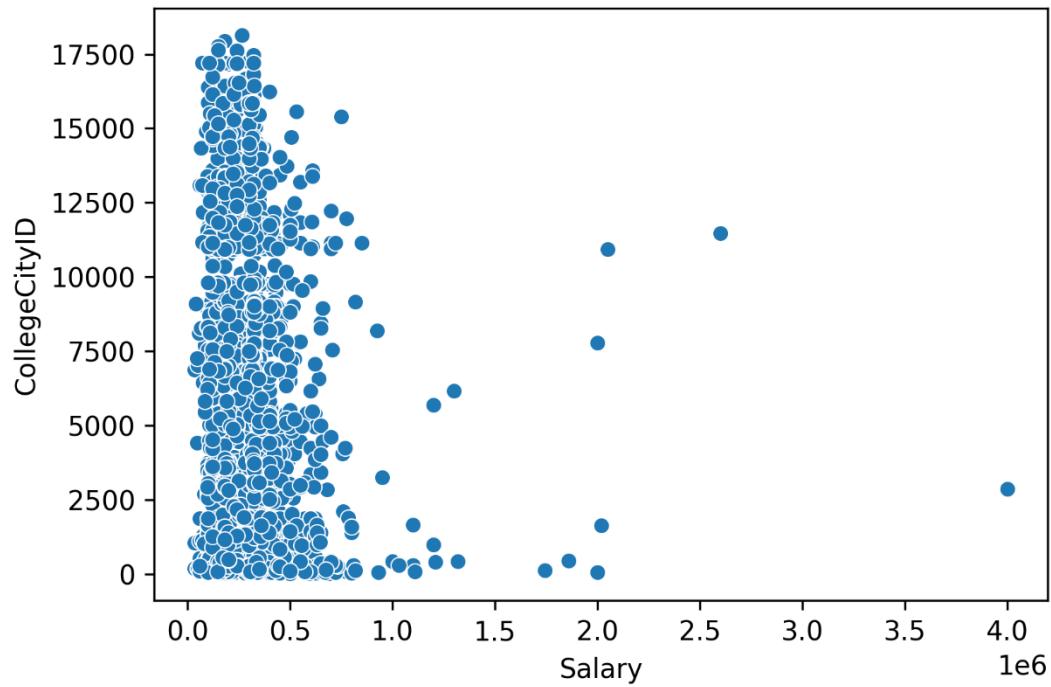
Scatter plot of Salary vs agreeableness



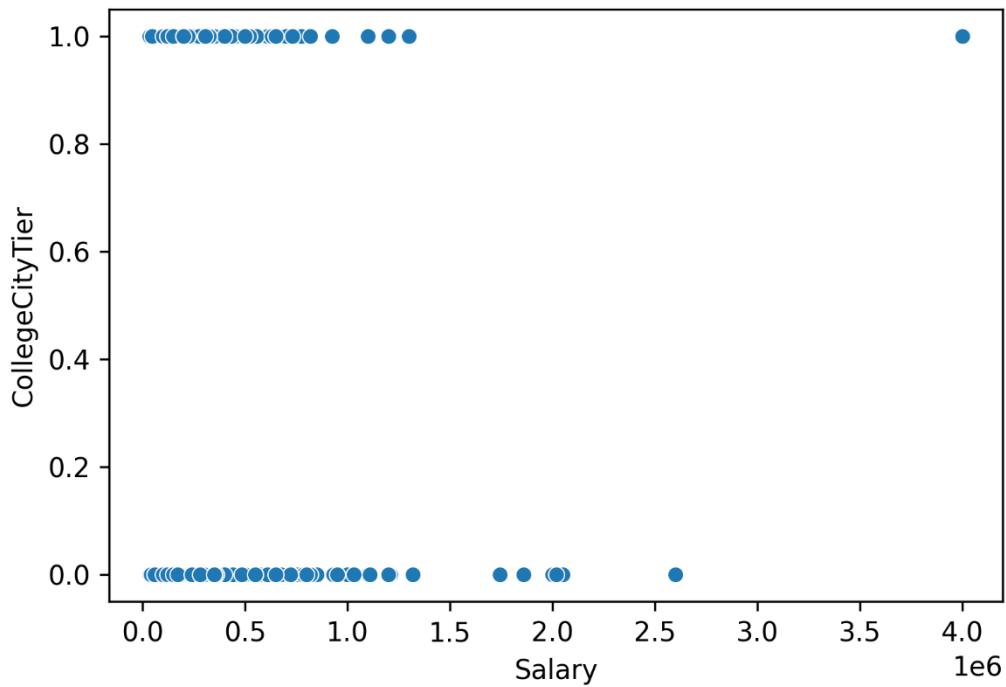
Scatter plot of Salary vs CivilEngg



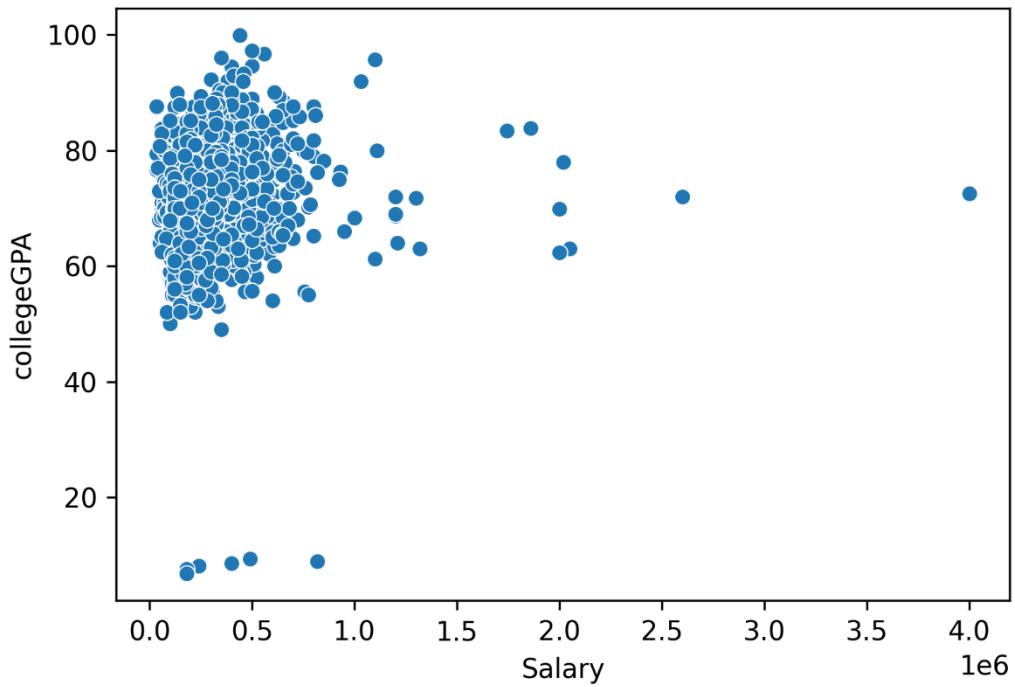
Scatter plot of Salary vs CollegeCityID



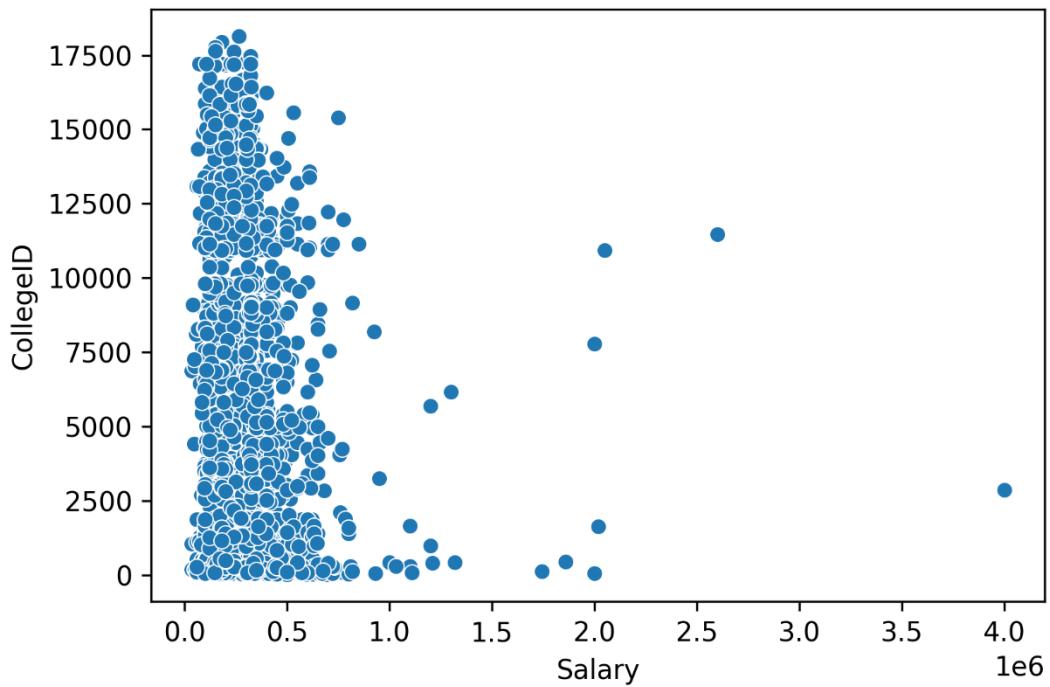
Scatter plot of Salary vs CollegeCityTier



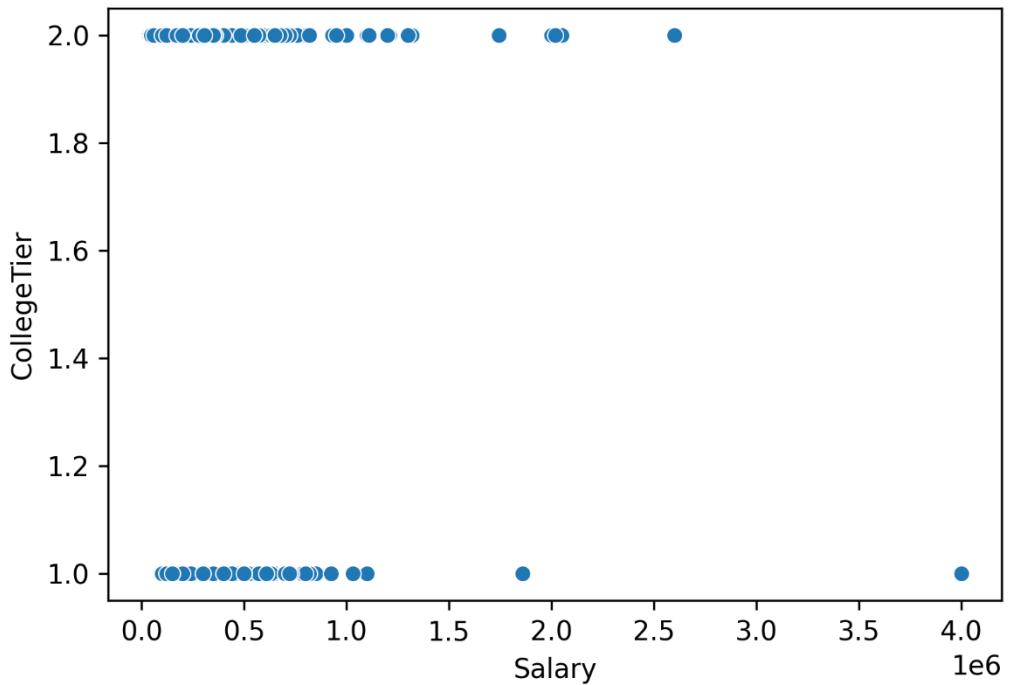
Scatter plot of Salary vs collegeGPA



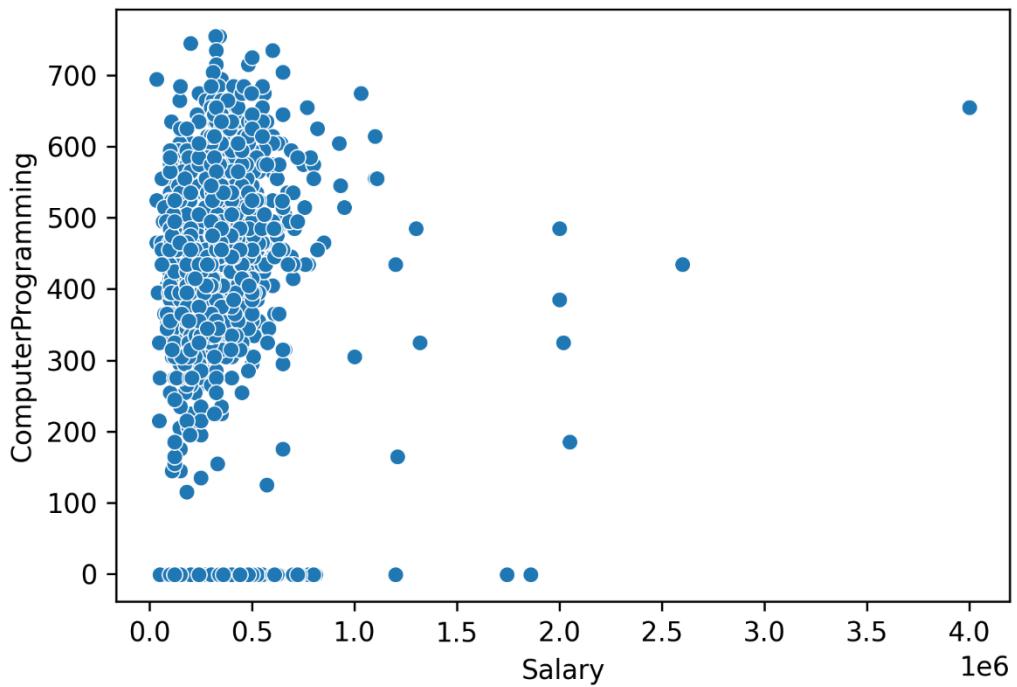
Scatter plot of Salary vs CollegeID



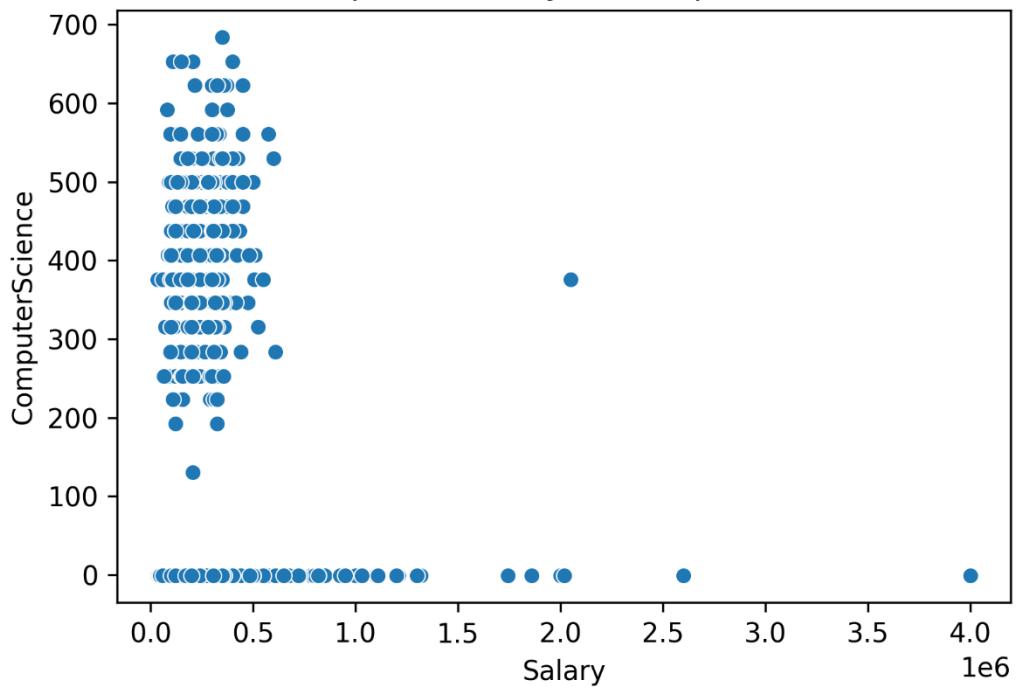
Scatter plot of Salary vs CollegeTier



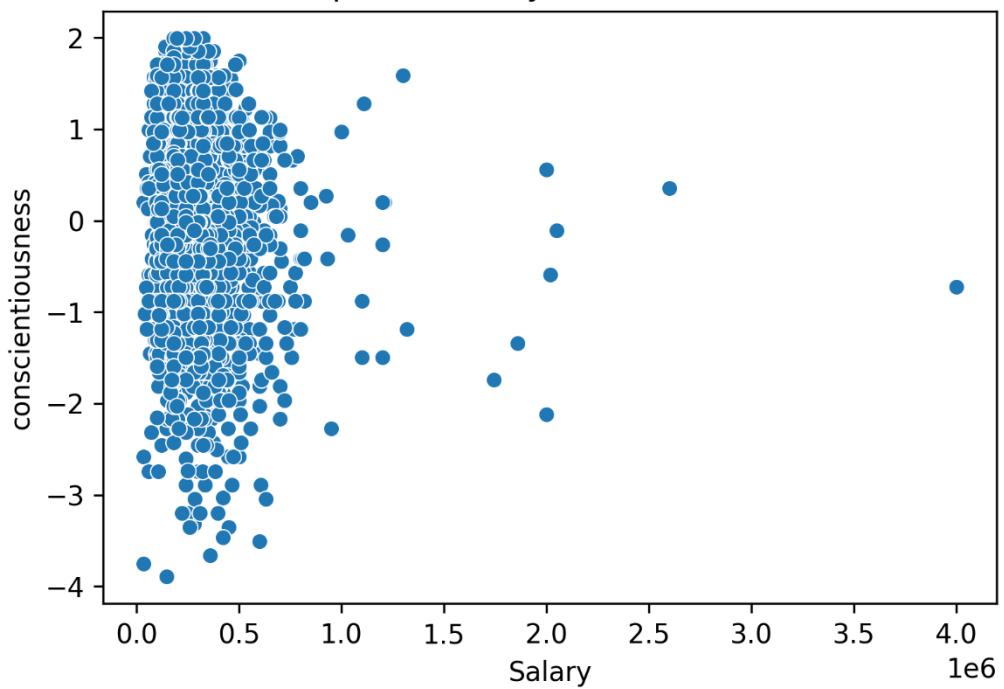
Scatter plot of Salary vs ComputerProgramming



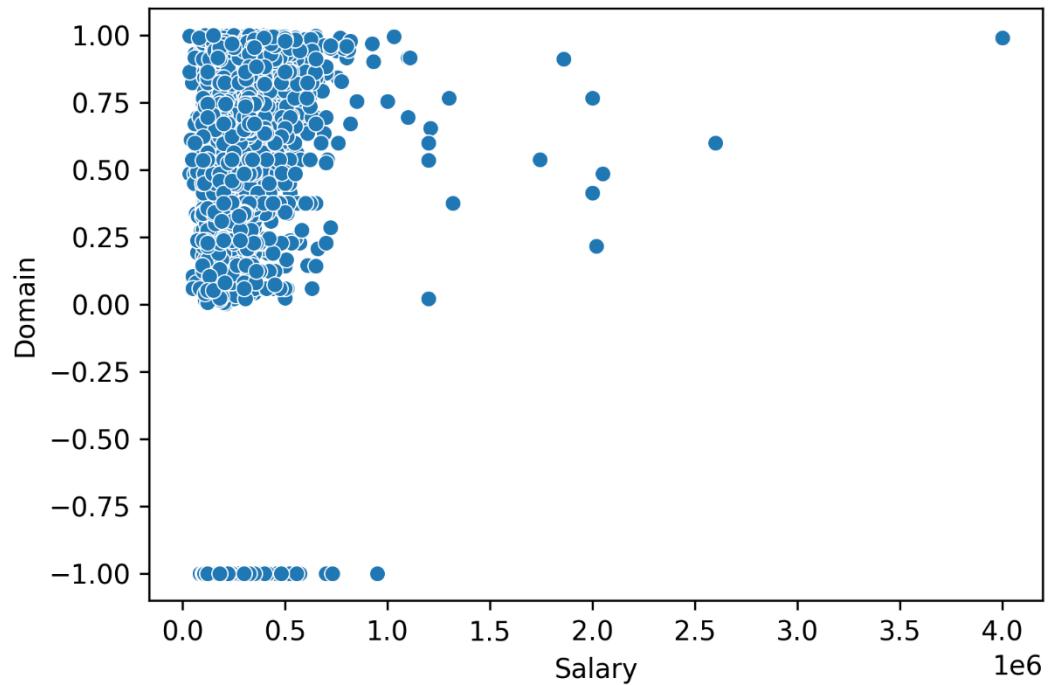
Scatter plot of Salary vs ComputerScience



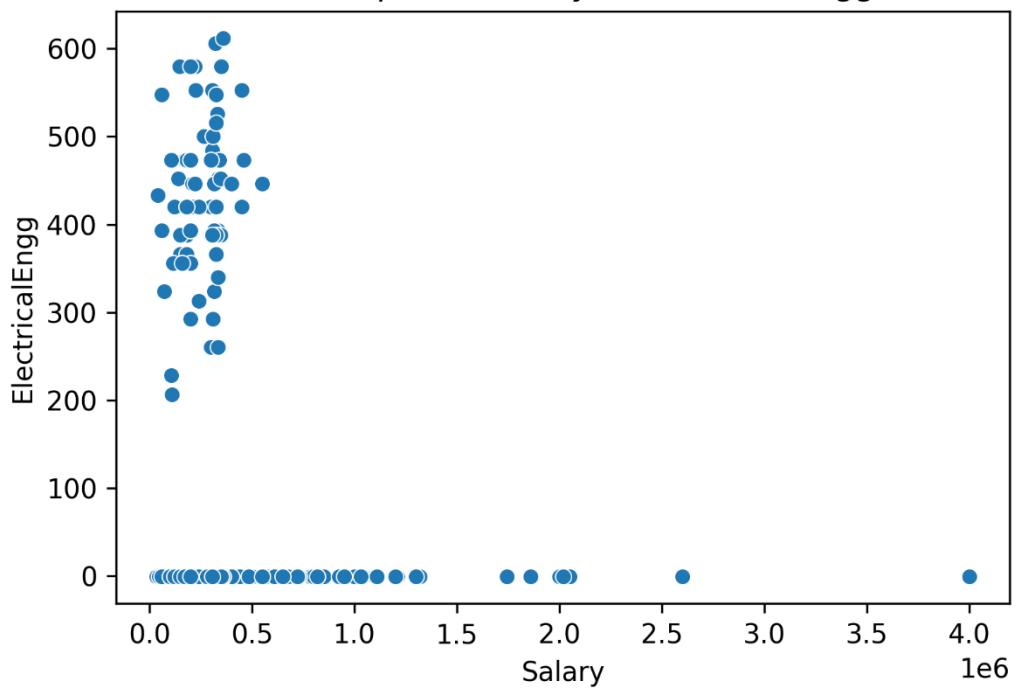
Scatter plot of Salary vs conscientiousness



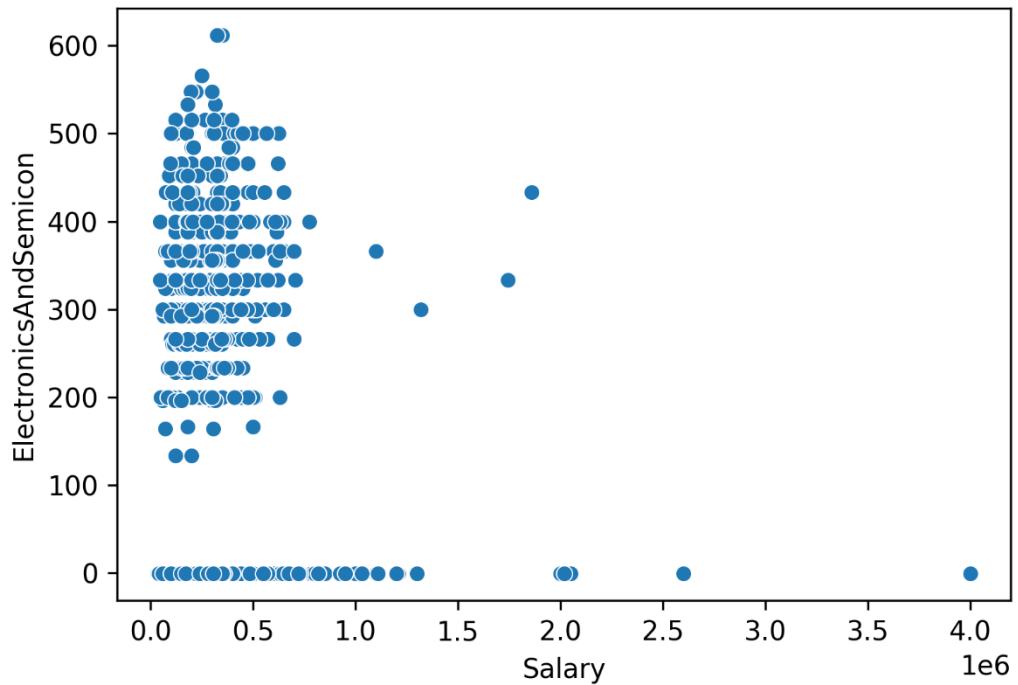
Scatter plot of Salary vs Domain



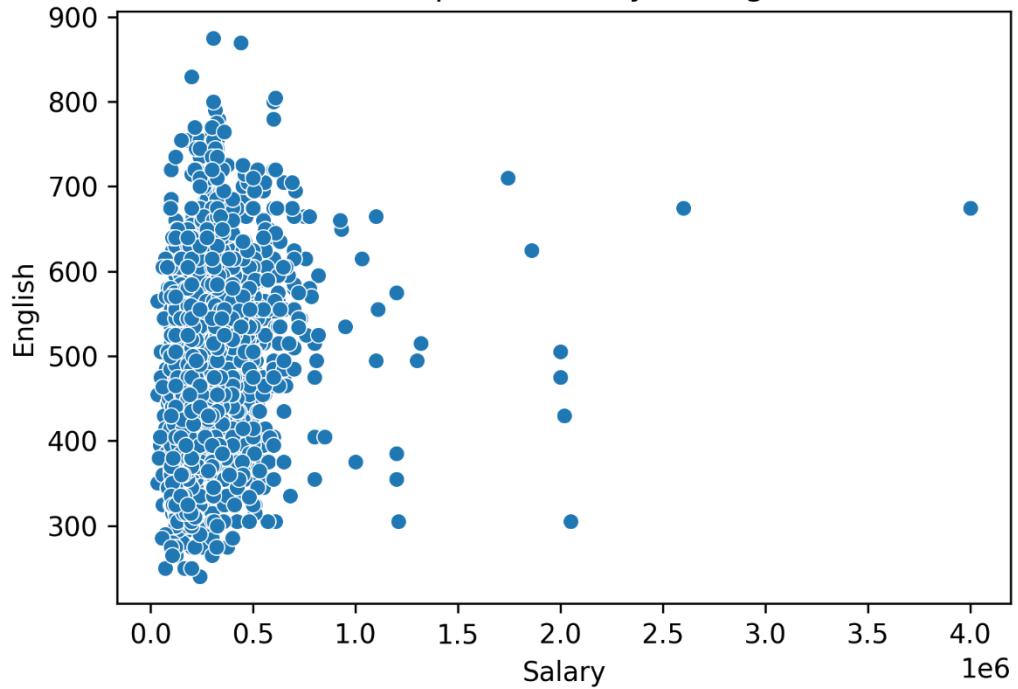
Scatter plot of Salary vs ElectricalEngg



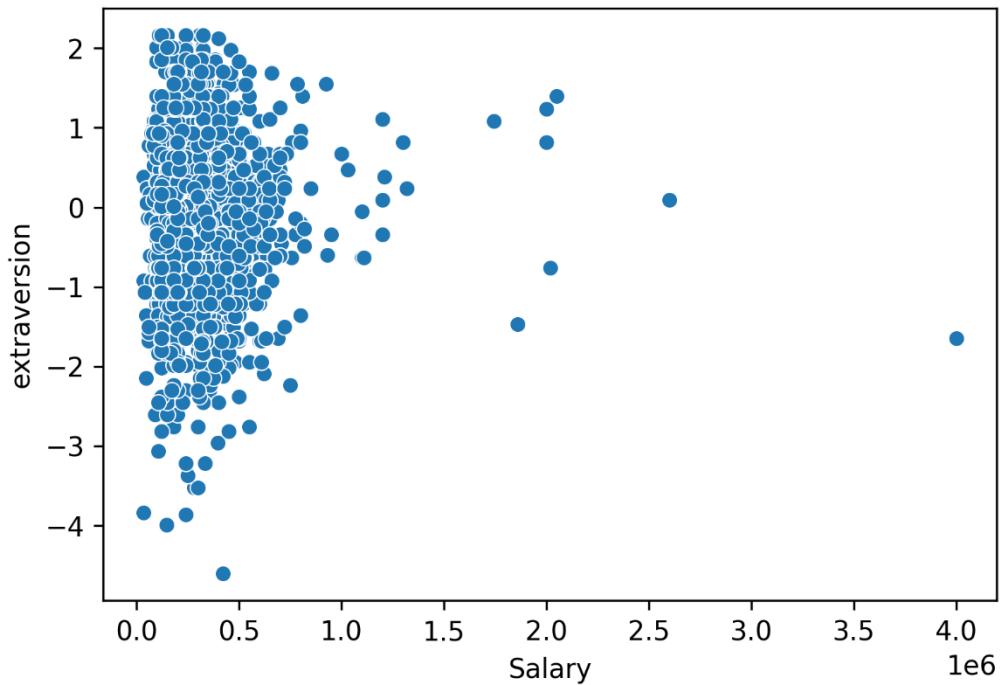
Scatter plot of Salary vs ElectronicsAndSemicon



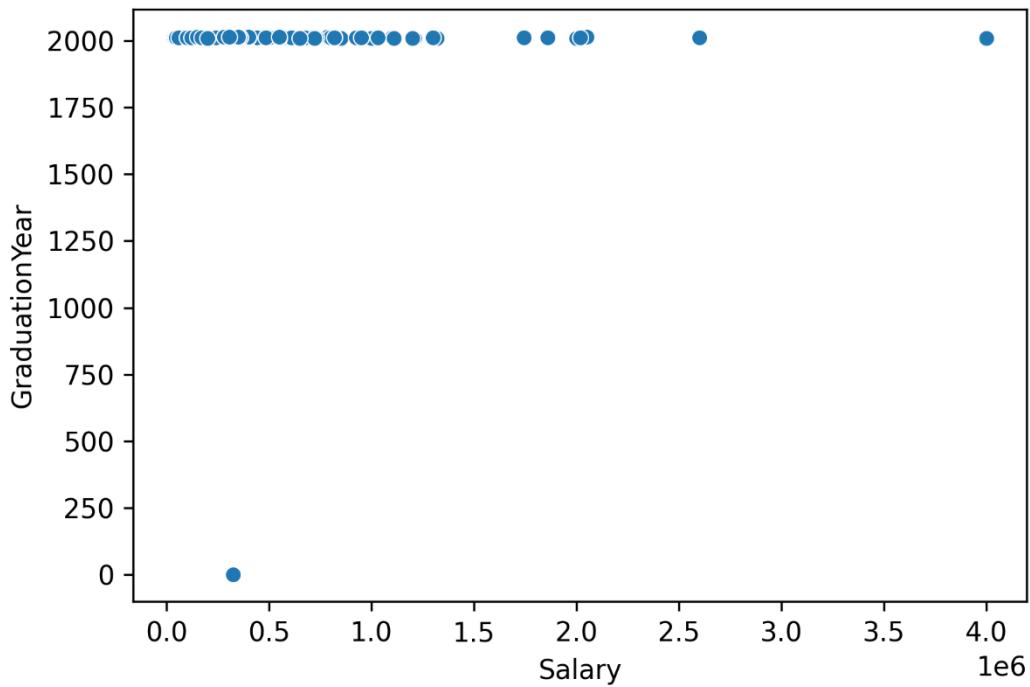
Scatter plot of Salary vs English



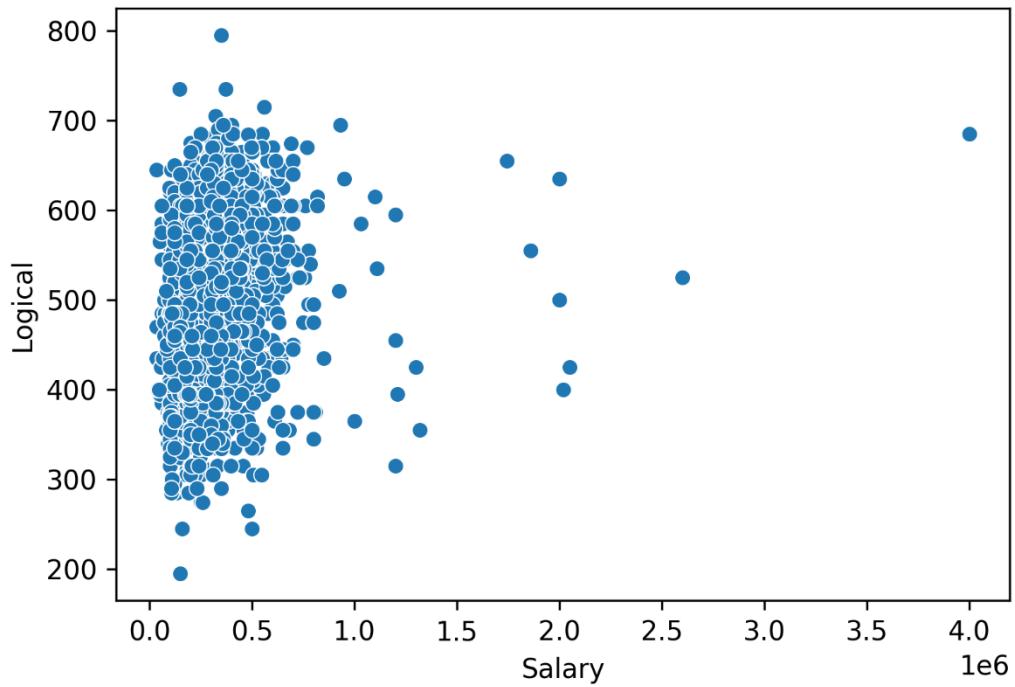
Scatter plot of Salary vs extraversion



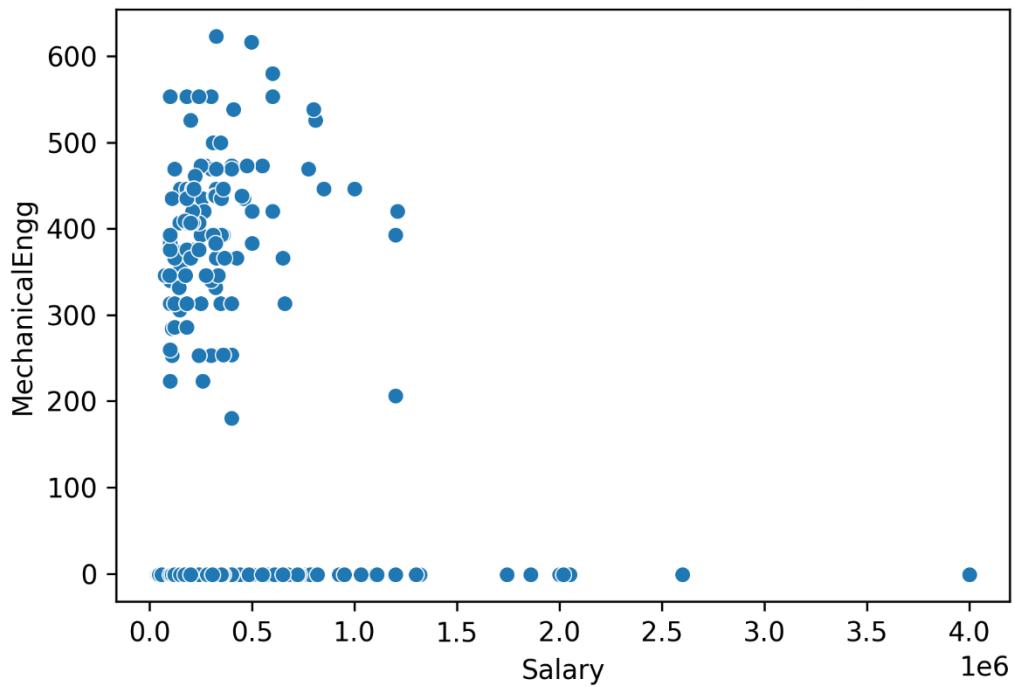
Scatter plot of Salary vs GraduationYear



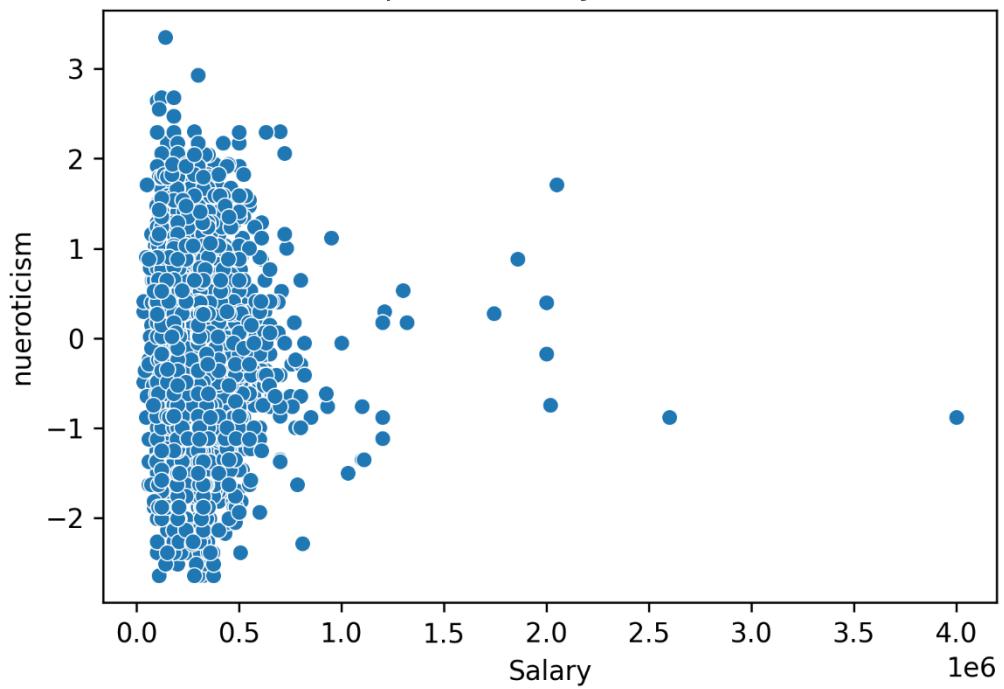
Scatter plot of Salary vs Logical



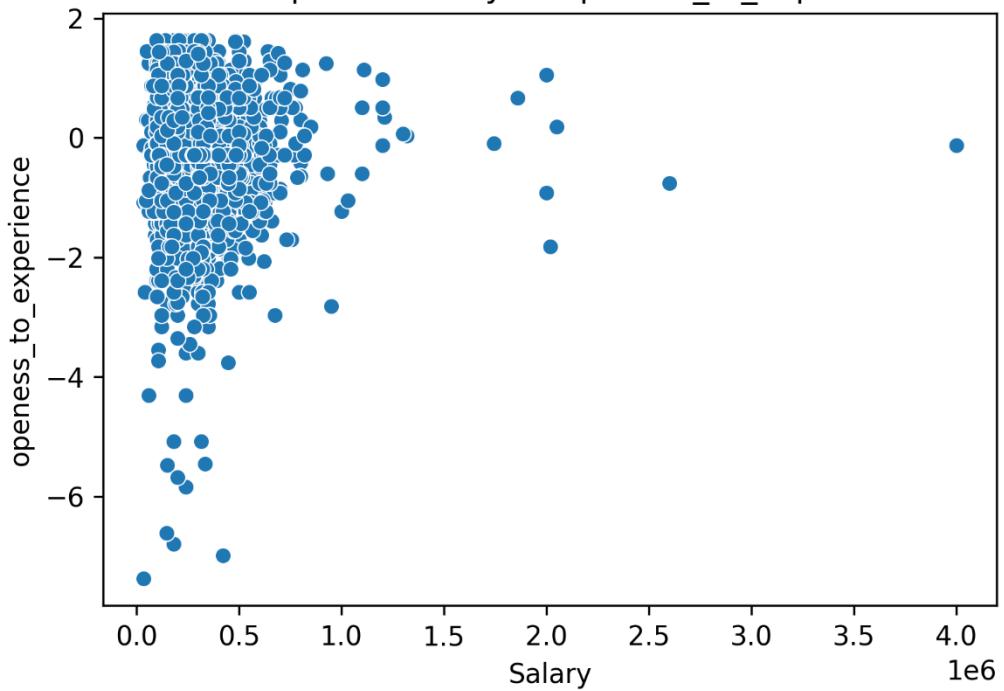
Scatter plot of Salary vs MechanicalEngg



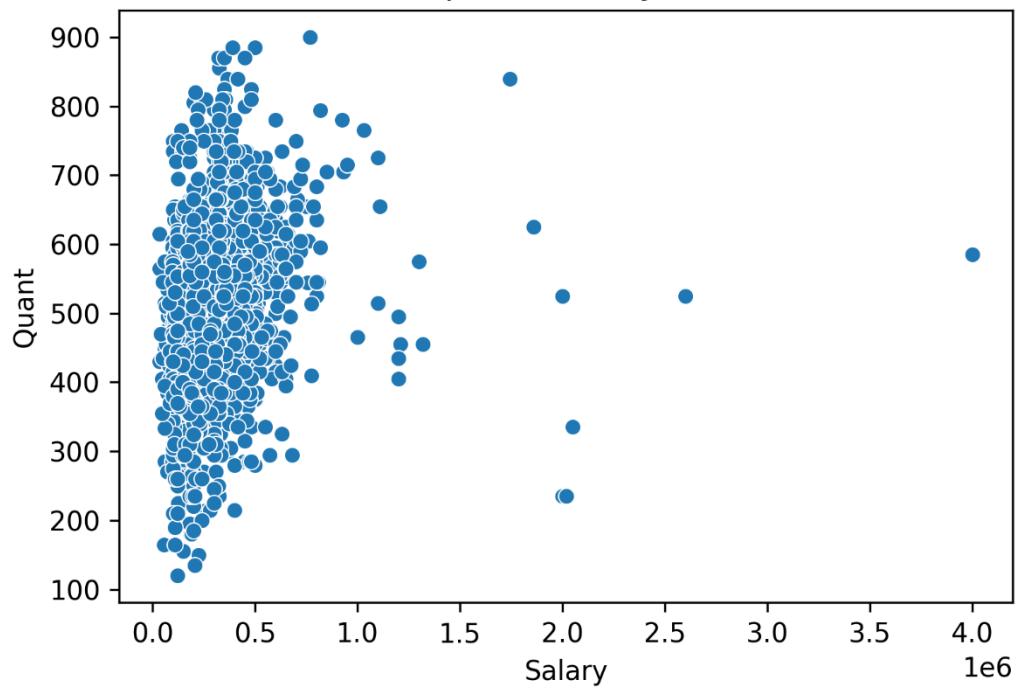
Scatter plot of Salary vs nueroticism



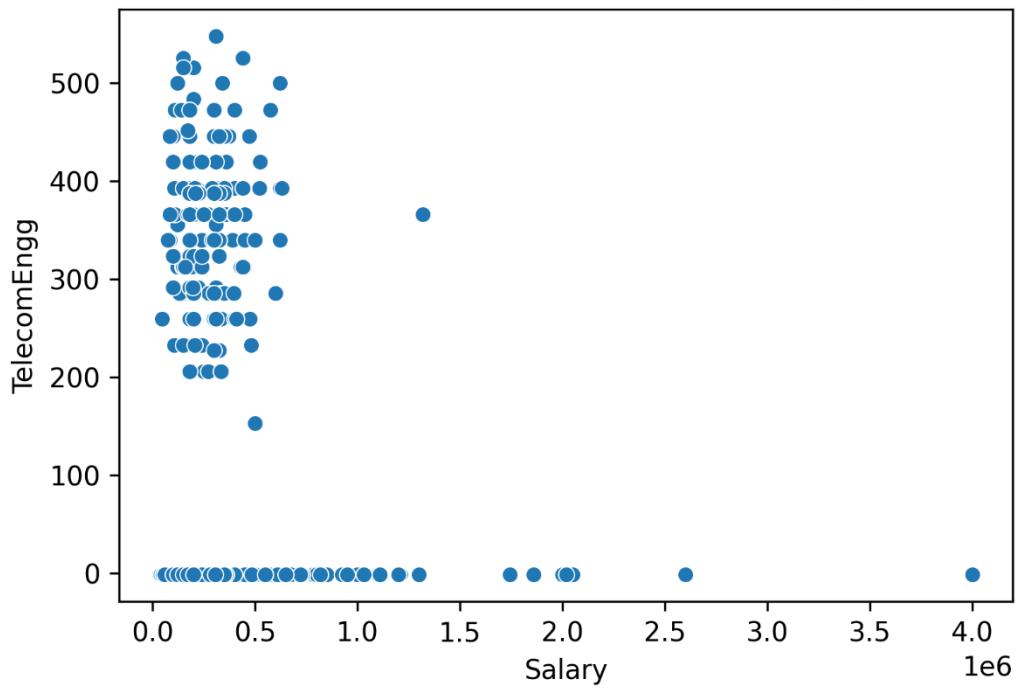
Scatter plot of Salary vs openness_to_experience



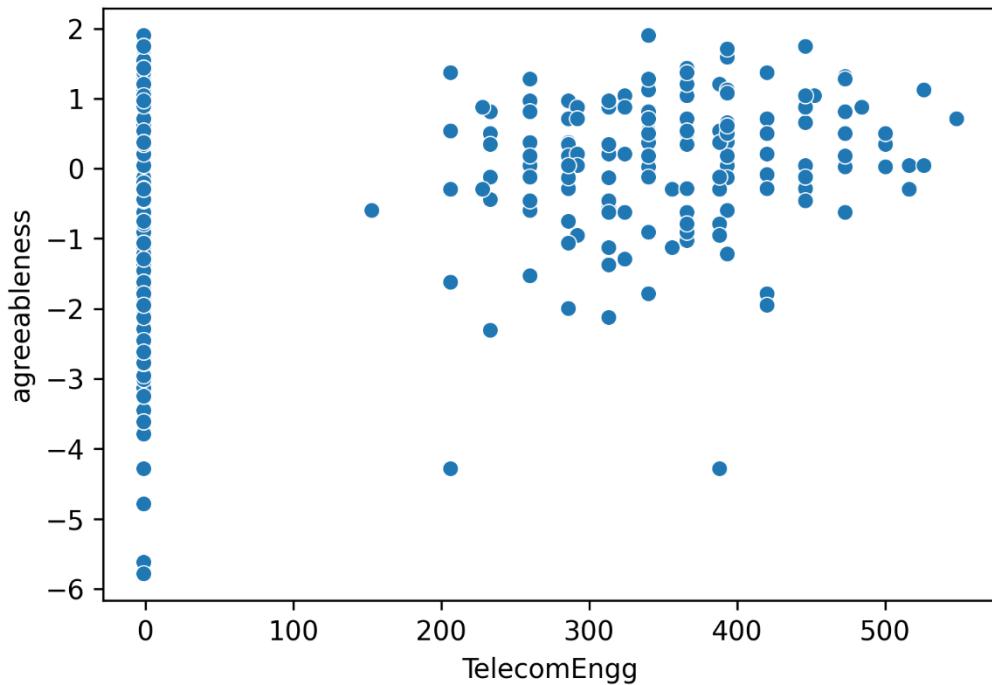
Scatter plot of Salary vs Quant



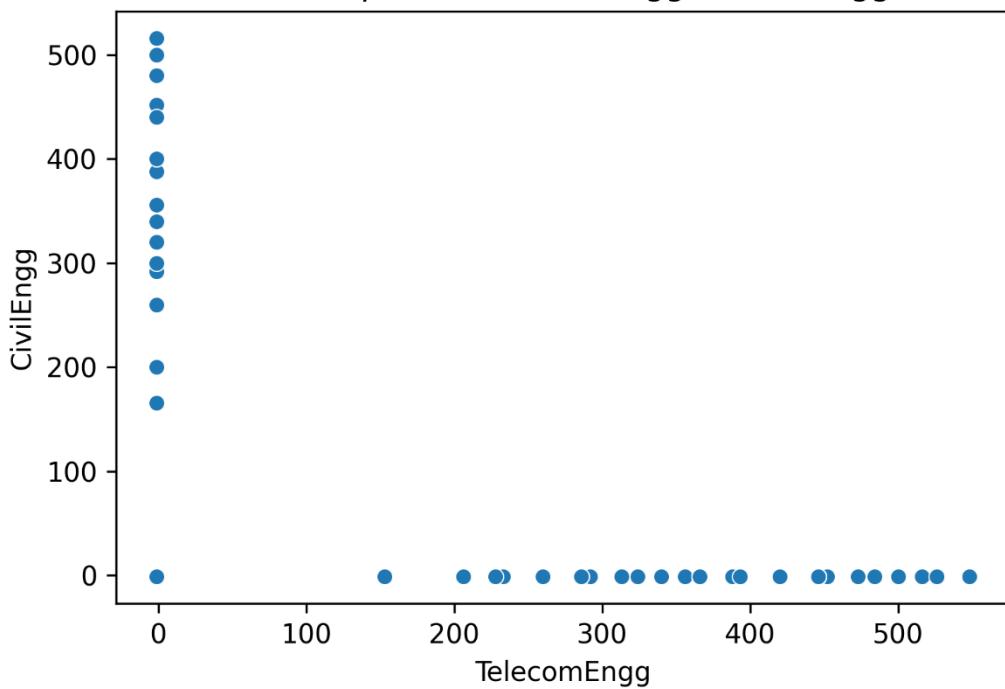
Scatter plot of Salary vs TelecomEngg



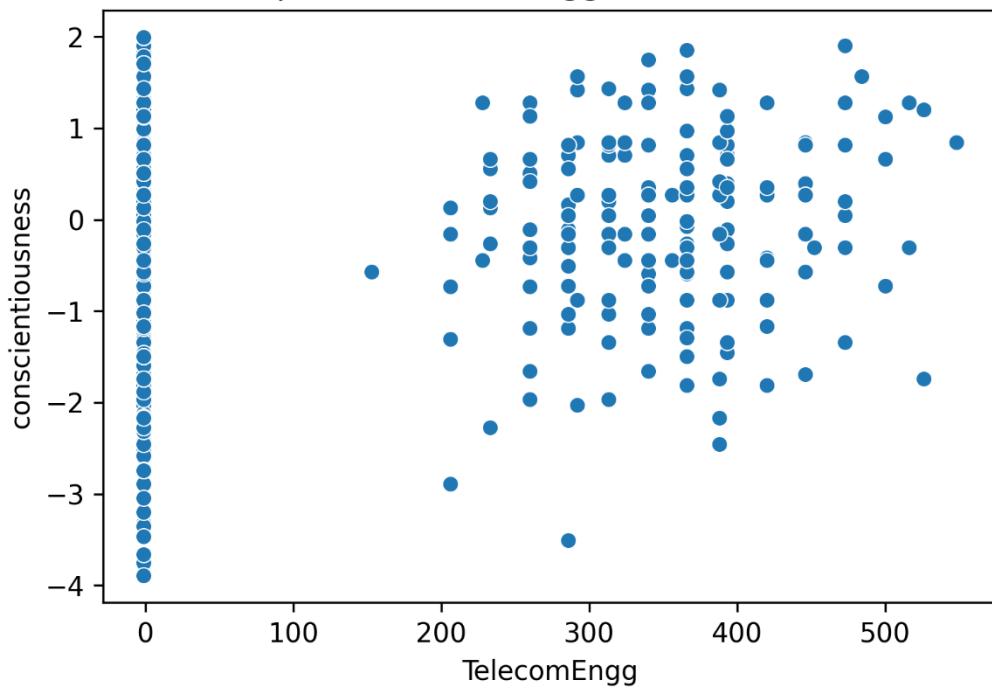
Scatter plot of TelecomEngg vs agreeableness



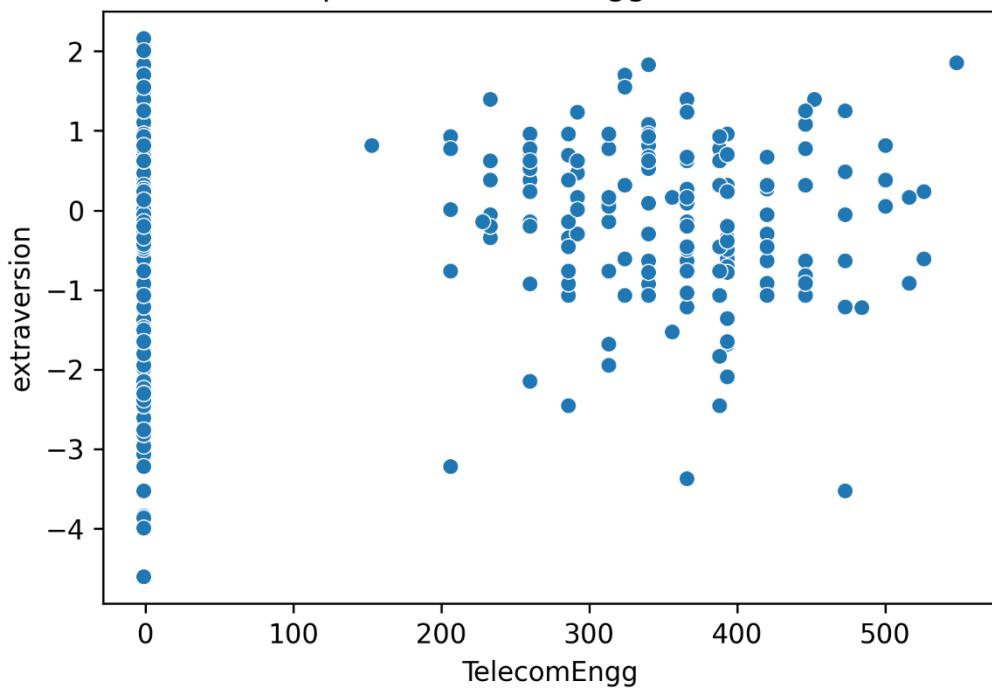
Scatter plot of TelecomEngg vs CivilEngg



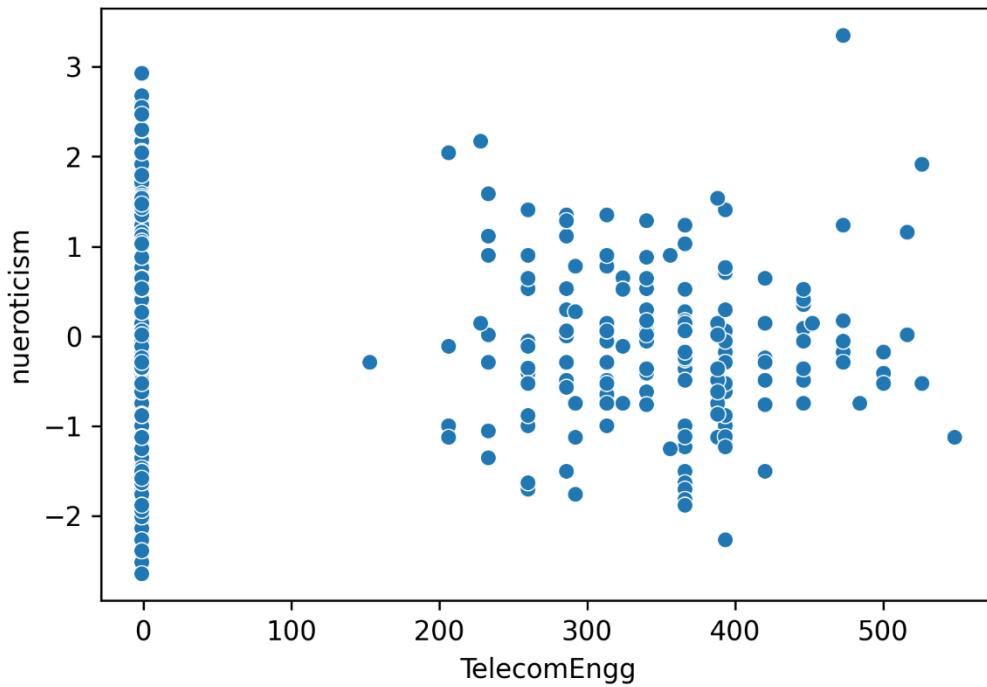
Scatter plot of TelecomEngg vs conscientiousness



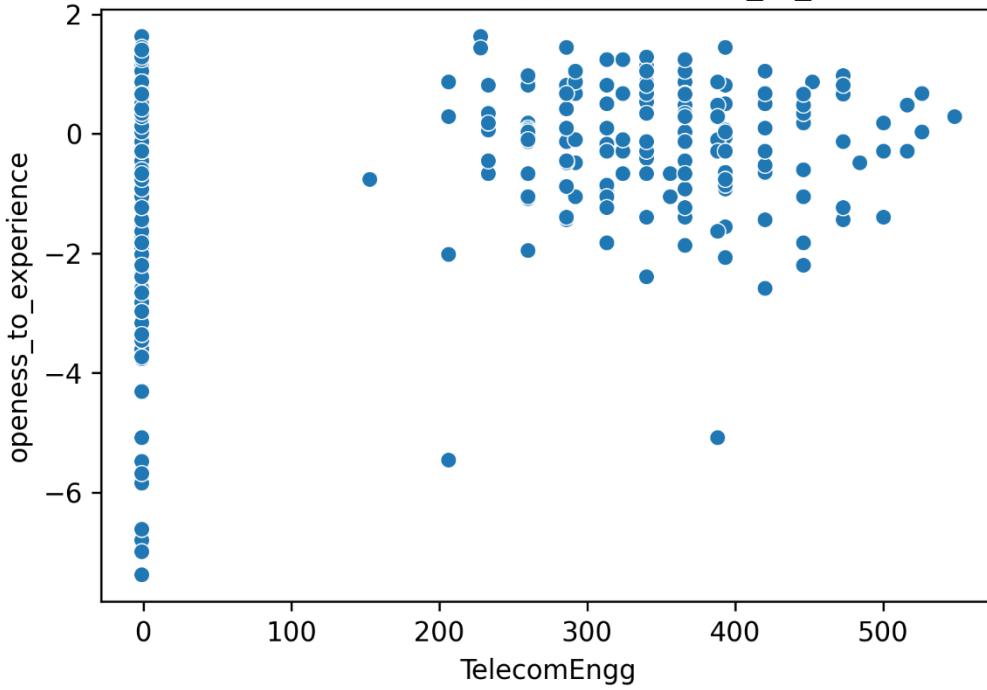
Scatter plot of TelecomEngg vs extraversion



Scatter plot of TelecomEngg vs nueroticism



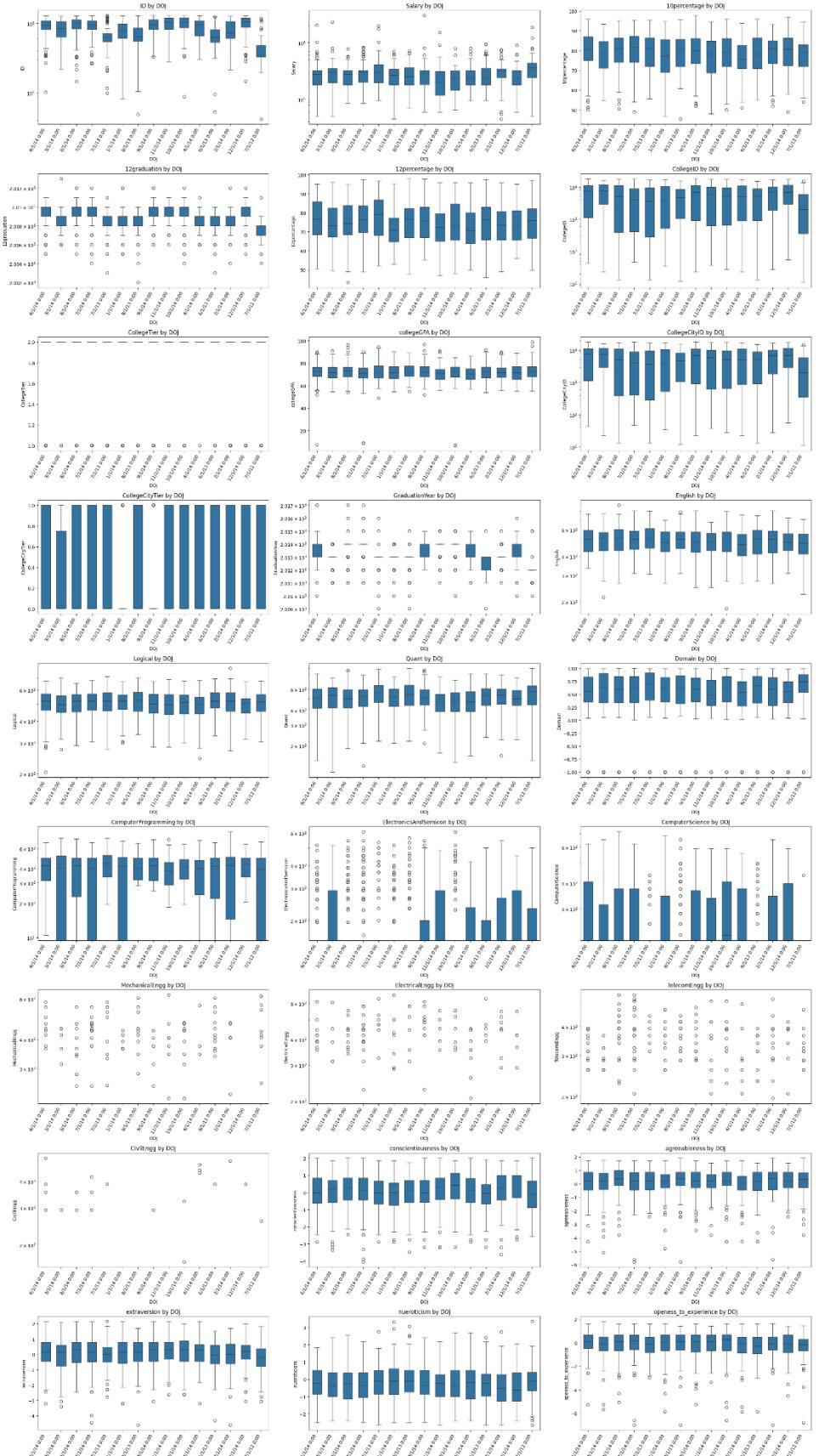
Scatter plot of TelecomEngg vs openness_to_experience



- We can analyze corelation from scatter plots. Only ID vs CollegeID, ID vs CollegeCityID, 10thpercentage vs 12thpercentage, 10thpercentage vs collegeGPA, 10thpercentage vs English, 10thpercentage vs Logical, 10thpercentage vs Quant, 10thpercentage vs ComputerProgramming, 12thpercentage vs collegeGPA, 12thpercentage vs English, 12thpercentage vs Logical, 12thpercentage vs Quant, CollegeID vs CollegeCityID, English vs Logical, English vs Quant, English vs ComputerProgramming, Logical vs Quant, Logical vs ComputerProgramming, Domain vs ElectronicsAndSemicon, Domain vs ComputerScience, Domain vs MechanicalEngg, Domain vs ElectricalEngg, conscientiousness vs agreeableness,

conscientiousness vs extraversion, agreeableness vs extraversion, agreeableness vs open_to_experience have positive corelation. All the scatter plots have outliers.

Bivariate analysis of categorical column vs numerical columns.

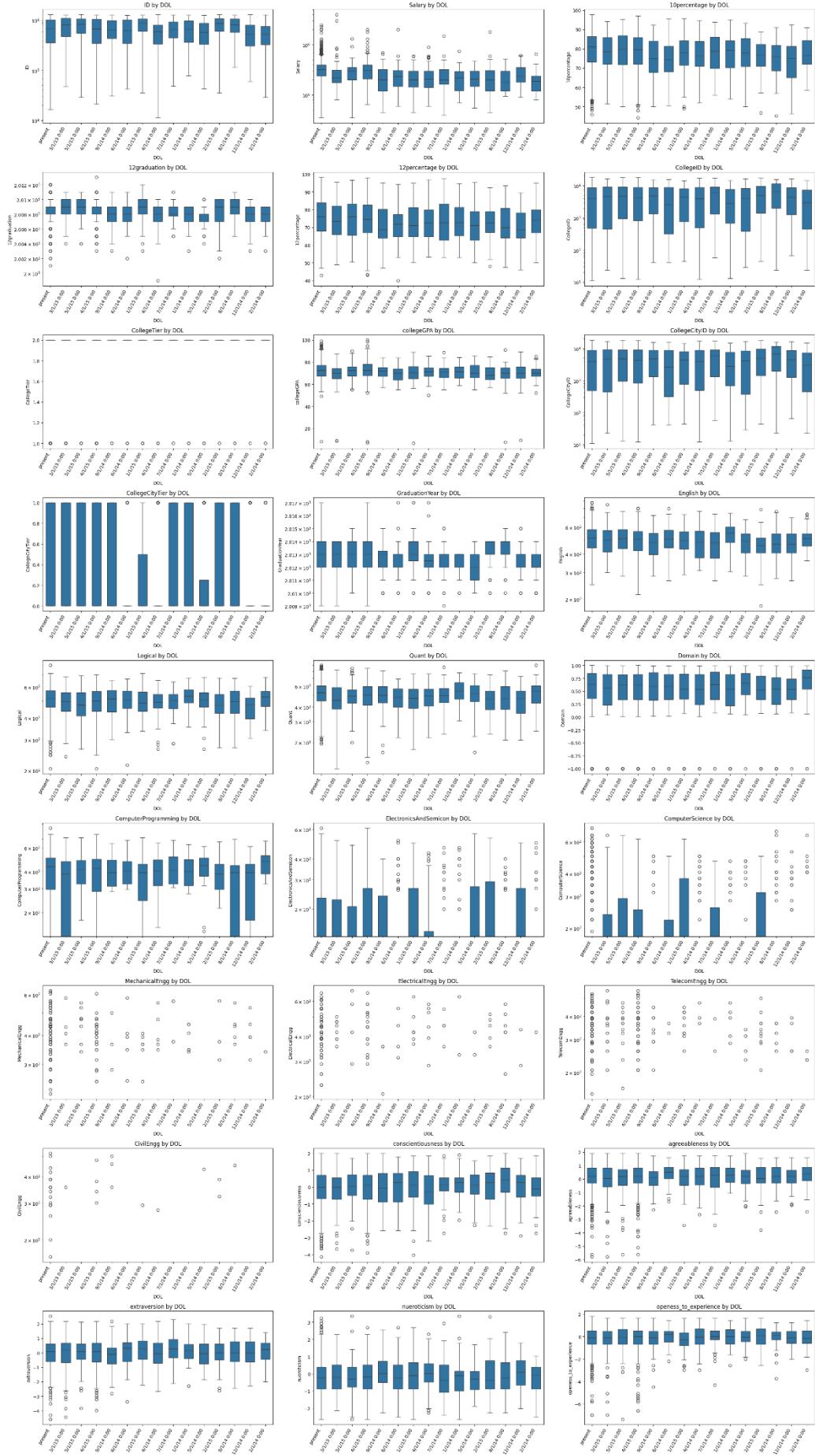


- **10th & 12th Percentage by DQ:**
 - The median values remain fairly consistent across different DQ categories.
 - Some categories have outliers.
- **College CGPA by DQ:**
 - The distribution varies slightly among DQ groups, with some groups showing a higher concentration around the median.
 - Some categories have outliers.
- **Graduation Year by DQ:**
 - Variability in graduation year is observed across different DQ groups.
 - Some students have later graduation years.

- **Salary by DQ:**
 - There is a wide range in salaries, with some categories having higher medians than others.
 - Outliers are present.
- **College Tier by DQ:**
 - The college tier distribution is fairly even, indicating that students from various college tiers are spread across all DQ levels.
 - However, some DQ groups seem to have a higher representation of students from higher-tier colleges.

- **Programming, Electronics, and Other Domains:**
 - Computer Programming by DQ shows a balanced distribution, meaning programming skills are fairly uniform across categories.
 - Electronics & Semiconductor by DQ shows greater variability with more outliers, indicating some students have specialized knowledge in this area.
 - Mechanical, Electrical, and Civil Ratings appear to have a scattered distribution, meaning skills in these fields vary widely among students.

- **Extraversion, Agreeableness, Conscientiousness, Neuroticism, and Openness by DQ:**
 - The distributions appear consistent across different DQ categories, meaning that personality traits do not show significant variations.
 - Some outliers indicate individuals with extreme personality traits.



Academic Performance (10th, 12th, Graduation):

- The 10th and 12th percentage distributions appear fairly consistent across DOJ categories, with slight variations in median scores.
- Graduation year varies significantly, likely depending on the batch or college tier.

Salary Trends:

- Salary distribution varies across DOJ, suggesting that some years may have better placement packages than others.
- Outliers in salary suggest a few candidates with exceptionally high or low pay.

College and Education Factors:

- College tier distribution is categorical, indicating the presence of students from different institution types.
- Certain college-related variables (e.g., CollegeGPA) show different medians, which may imply differences in academic standards across DOJ.

Technical and Logical Skills:

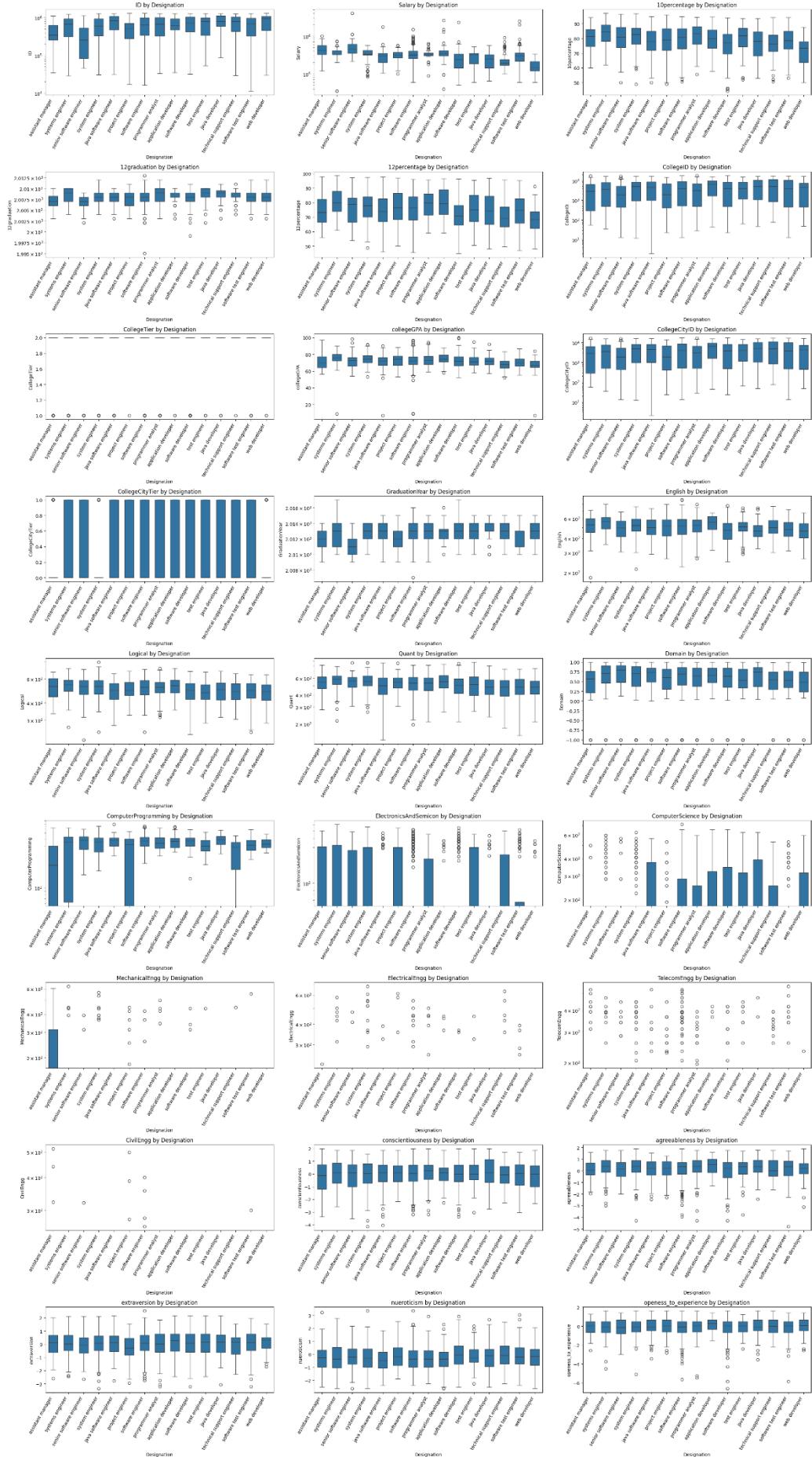
- Scores in **Logical, Quant, and Programming** skills seem to follow a normal distribution with variations across DOJ.
- Some DOJ groups show higher programming skills, which might correlate with better placement rates.

Domain-Specific Knowledge:

- Engineering branches like **Electronics, Computer Science, Mechanical, Electrical, Civil, and Telecom** have different distributions.
- The presence of many zero-value bars might indicate missing data or specialization differences.

□ Personality Traits (Big Five Model):

- Traits like **Conscientiousness, Agreeableness, Neuroticism, Extraversion, and Openness to Experience** show slight variations across DOJ.



Salary by Designation – Outliers present, variation across roles.

10th & 12th Percentage by Designation – Outliers present, consistent distribution.

College GPA by Designation – Outliers present, minimal variation.

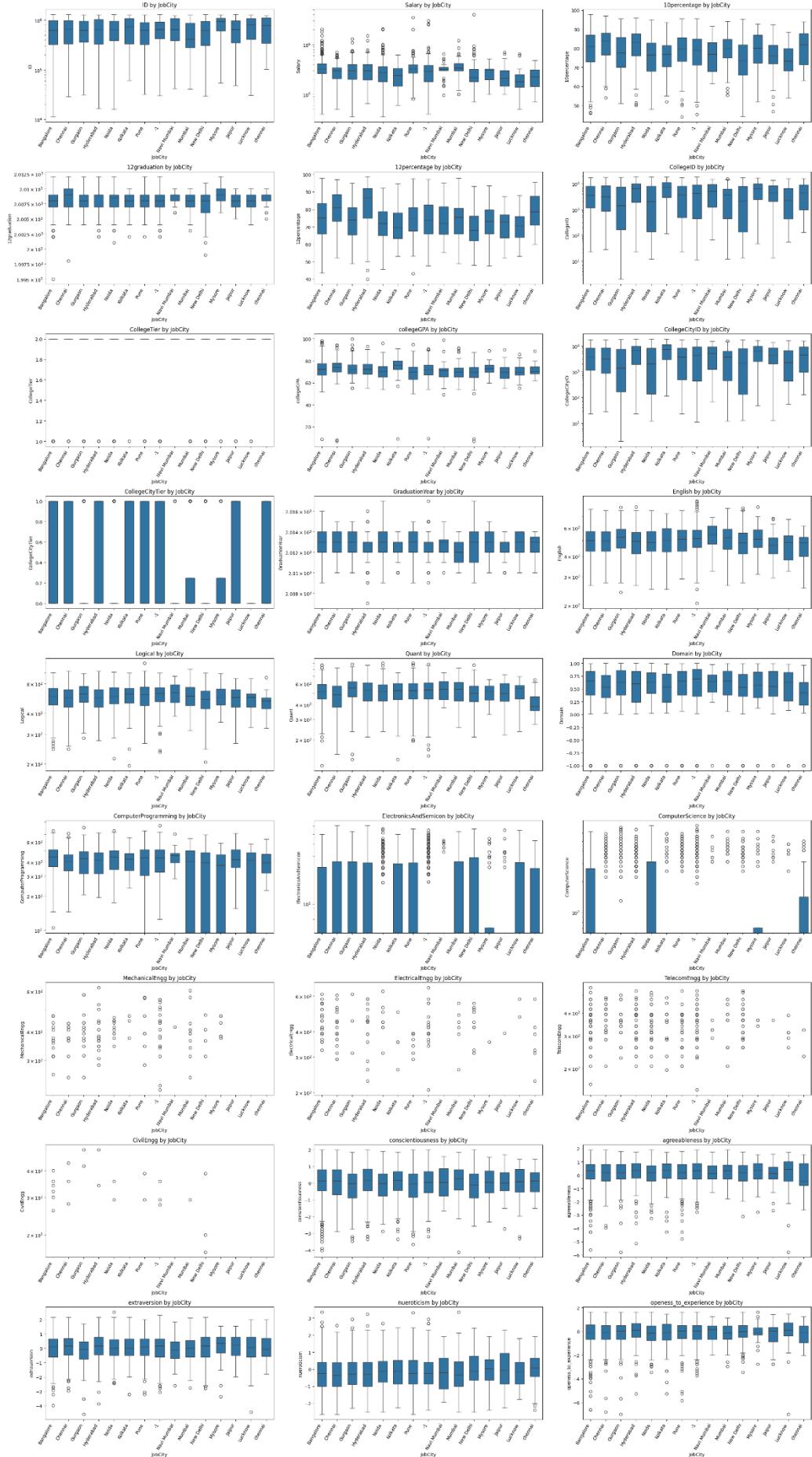
Graduation Year by Designation – Outliers present, most employees from recent batches.

Logical, Quant, and English Scores – Outliers present, similar distributions.

Programming & Domain Knowledge – Outliers present, variation in technical skills.

Engineering Branches (Mechanical, Electrical, etc.) – Outliers present, distribution varies by role.

Personality Traits (Big Five Model) – Outliers present, minor variations across designations.



Salary by JobCity – Outliers present, variation across cities.

10th & 12th Percentage by JobCity – Outliers present, consistent distribution.

College GPA by JobCity – Outliers present, minimal variation.

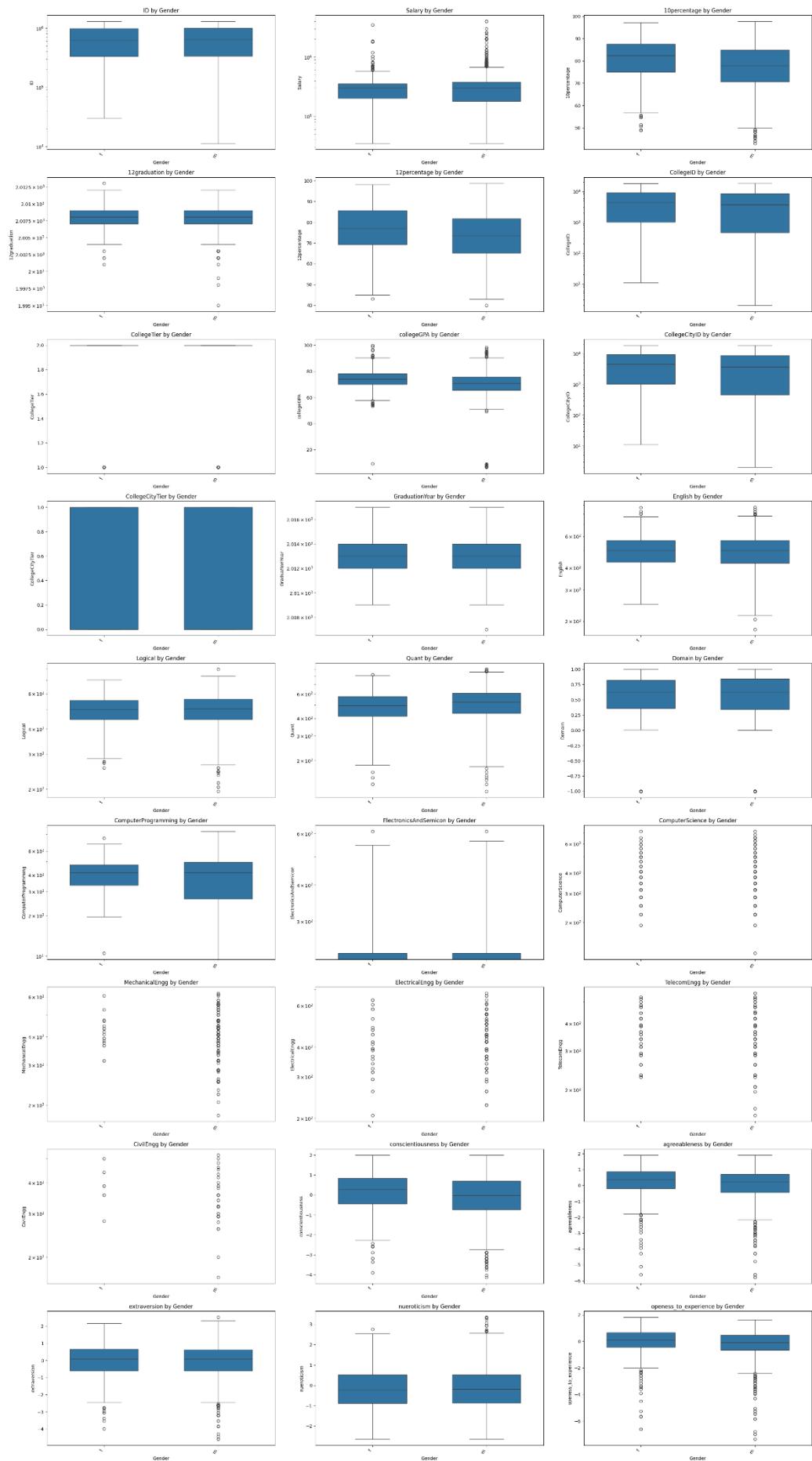
Graduation Year by JobCity – Outliers present, most employees from recent batches.

Logical, Quant, and English Scores by JobCity – Outliers present, similar distributions.

Programming & Domain Knowledge by JobCity – Outliers present, variation in technical skills.

Engineering Branches (Mechanical, Electrical, etc.) by JobCity – Outliers present, distribution varies by city.

Personality Traits (Big Five Model) by JobCity – Outliers present, minor variations across cities.



Salary by Gender – Outliers present, variation across genders.

10th & 12th Percentage by Gender – Outliers present, consistent distribution.

College GPA by Gender – Outliers present, minor variation.

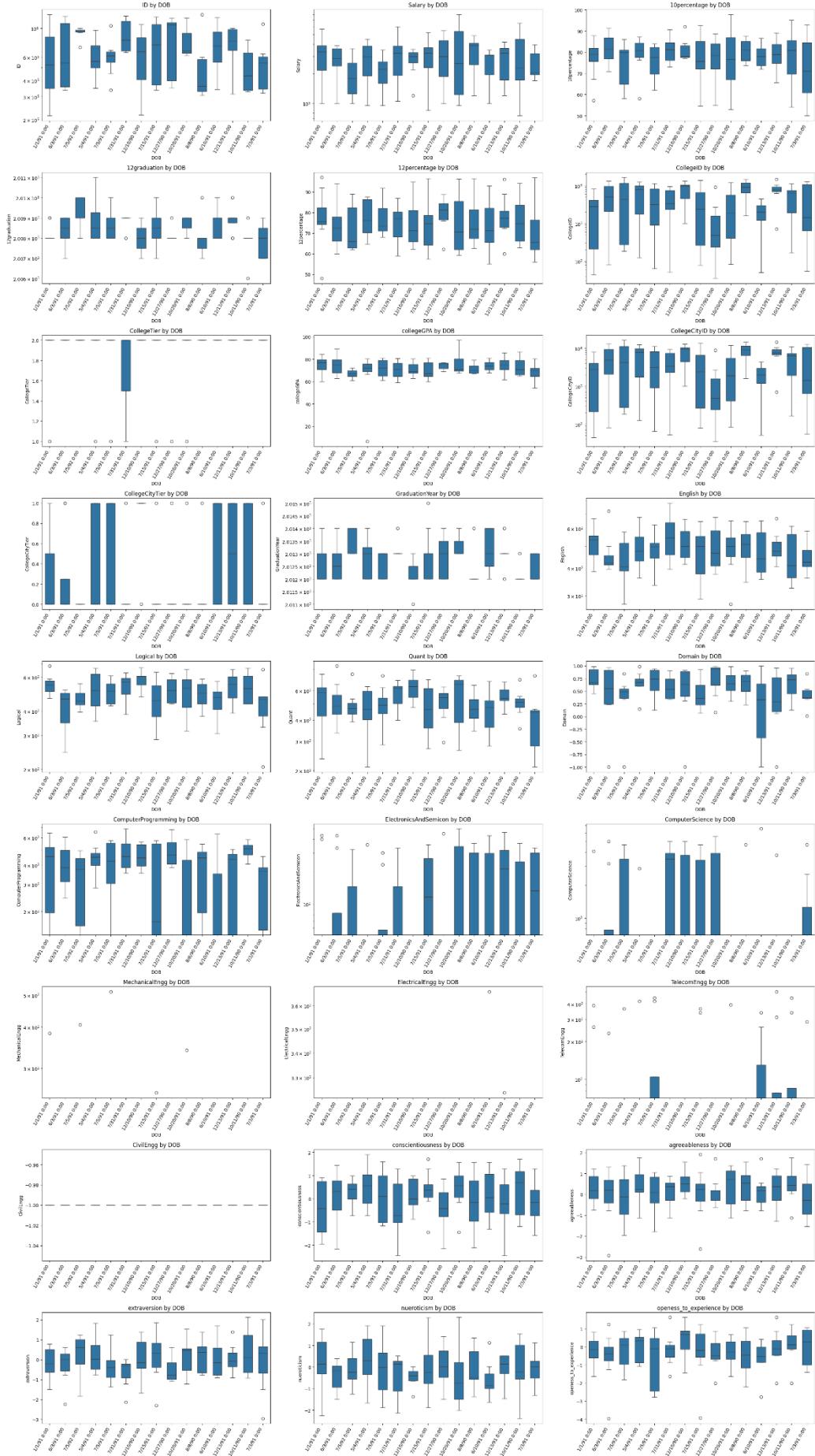
Graduation Year by Gender – Outliers present, most employees from recent batches.

Logical, Quant, and English Scores by Gender – Outliers present, similar distributions.

Programming & Domain Knowledge by Gender – Outliers present, variation in technical skills.

Engineering Branches (Mechanical, Electrical, etc.) by Gender – Outliers present, distribution varies by gender.

Personality Traits (Big Five Model) by Gender – Outliers present, minor variations across genders.



Salary by DOB

- Outliers present.
- Variation in salary across different DOBs.

10th & 12th Percentage by DOB

- Outliers present.
- Consistent distribution of scores across DOBs.

College GPA by DOB

- Outliers present.
- Minor variation across DOBs.
- Some DOBs have higher GPA medians.

Graduation Year by DOB

- Outliers present.
- Variation in graduation years exists across different DOBs.

Logical, Quant, and English Scores by DOB

- Outliers present.
- Some DOBs have higher median scores.

Programming & Domain Knowledge by DOB

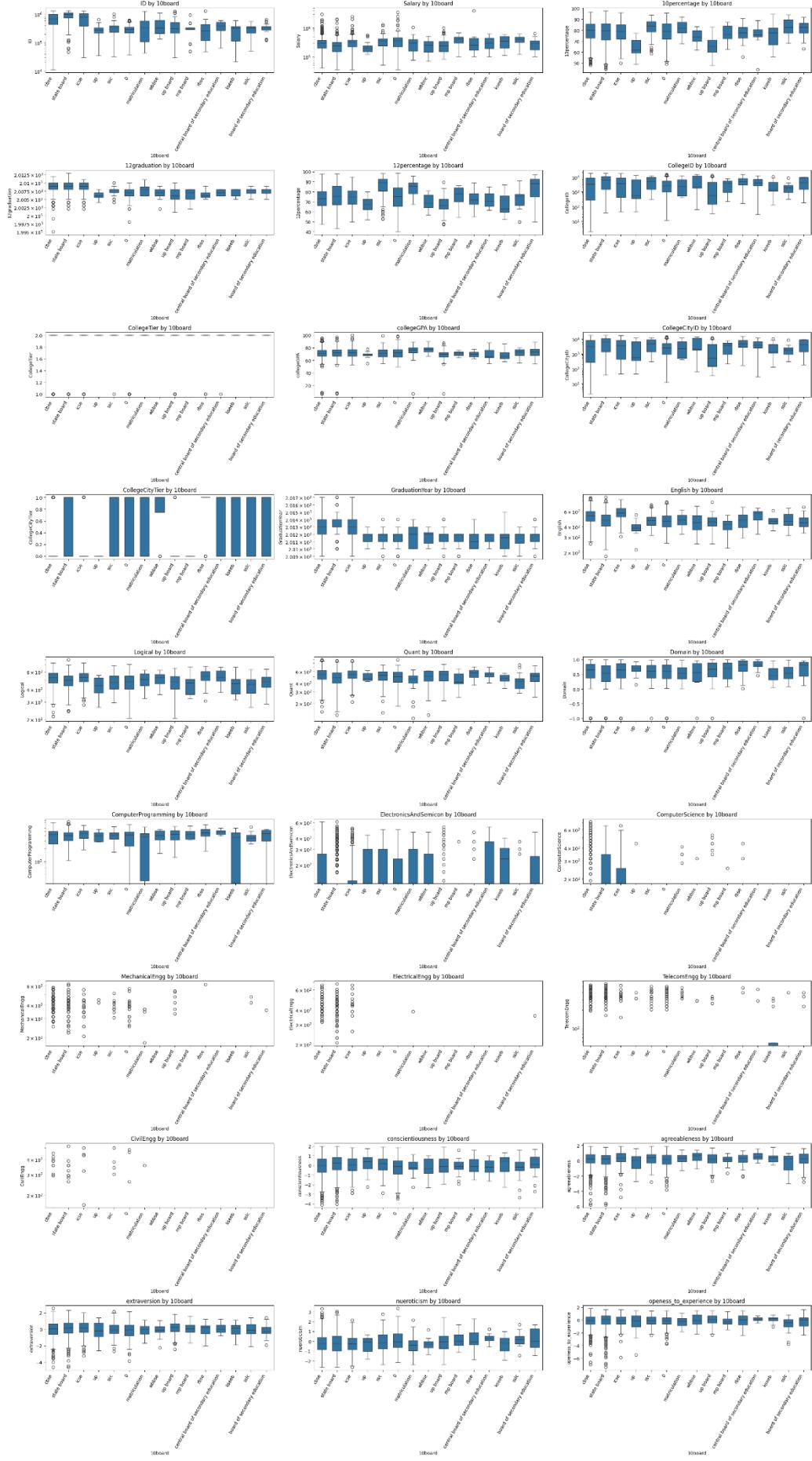
- Outliers present.
- Variation in technical skills across DOBs.

Engineering Branches (Mechanical, Electrical, Civil, etc.) by DOB

- Outliers present.
- Distribution varies across different DOBs.

Personality Traits (Big Five Model: Conscientiousness, Agreeableness, Extroversion, Neuroticism, Openness to Experience) by DOB

- Outliers present.
- Minor variations in personality traits across DOBs.



Salary by 10th Board

- Outliers present.
- Minor variation in salary across different boards.
- Some boards have slightly higher median salaries.

10th & 12th Percentage by 10th Board

- Outliers present.
- Distribution appears consistent across different boards.
- Some boards have higher median percentages in 10th and 12th.

College GPA by 10th Board

- Outliers present.
- Minor variation in GPA across boards.
- Some boards have a slightly higher median GPA.

Graduation Year by 10th Board

- Outliers present.
- Most individuals are from recent batches, with some variation.

Logical, Quant, and English Scores by 10th Board

- Outliers present.
- Similar distribution of scores across different boards.
- Some boards show higher median scores in Logical, Quant, and English sections.

Programming & Domain Knowledge by 10th Board

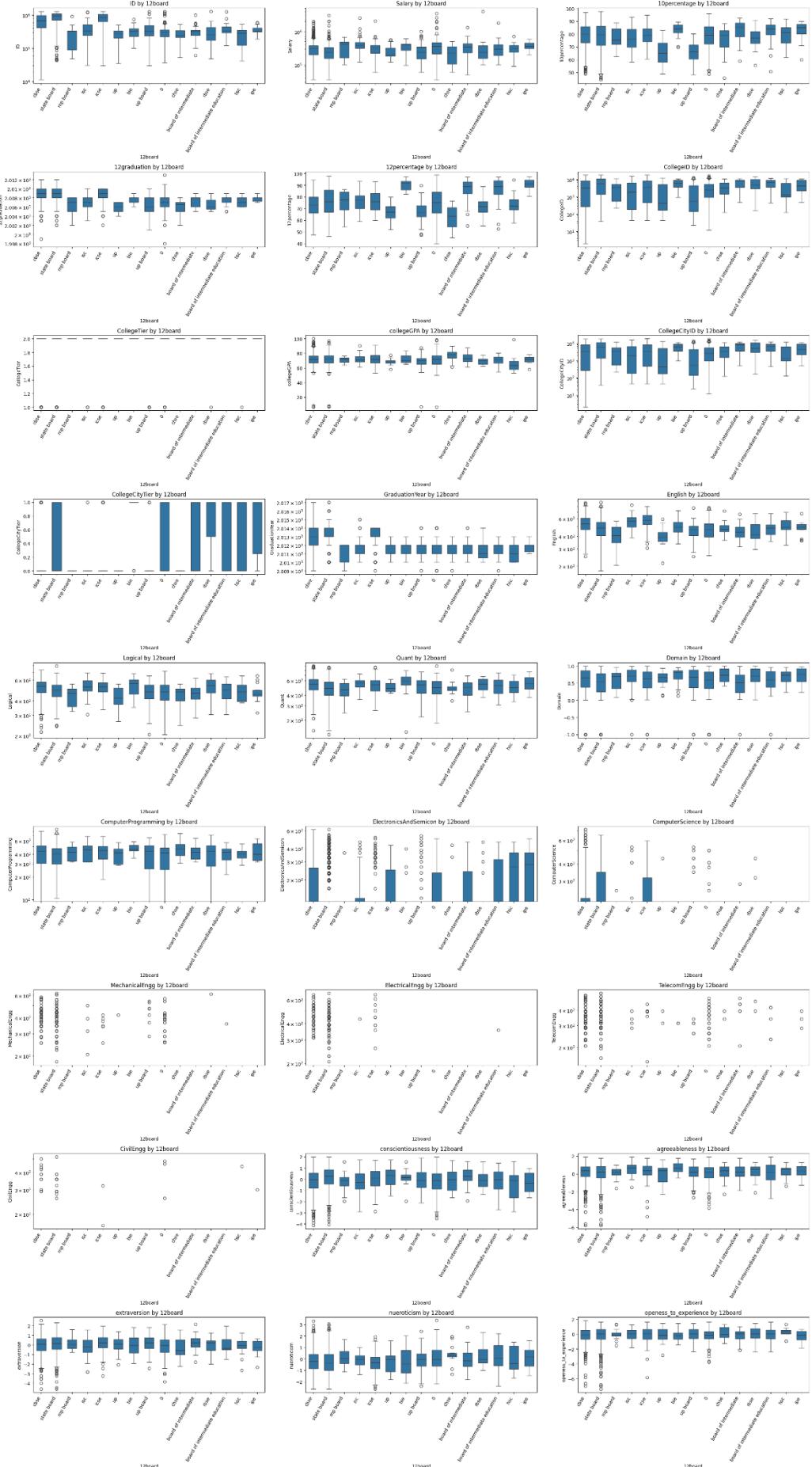
- Outliers present.
- Variation in technical skills across different boards.
- Some boards show stronger programming skills.

Engineering Branches (Mechanical, Electrical, Civil, etc.) by 10th Board

- Outliers present.
- Distribution varies across boards.
- Some boards have more students in specific branches.

Personality Traits (Big Five Model) by 10th Board

- Outliers present.
- Minor variations in personality traits across boards.



1. Academic Performance Metrics

- **10th & 12th Percentage by 12board:**
 - The median values across different boards appear consistent.
 - Some boards have a larger spread, indicating variation in scores.
- **Graduation Score by 12board:**
 - A similar trend as 10th & 12th percentages, with some variation in performance.

2. College-related Metrics

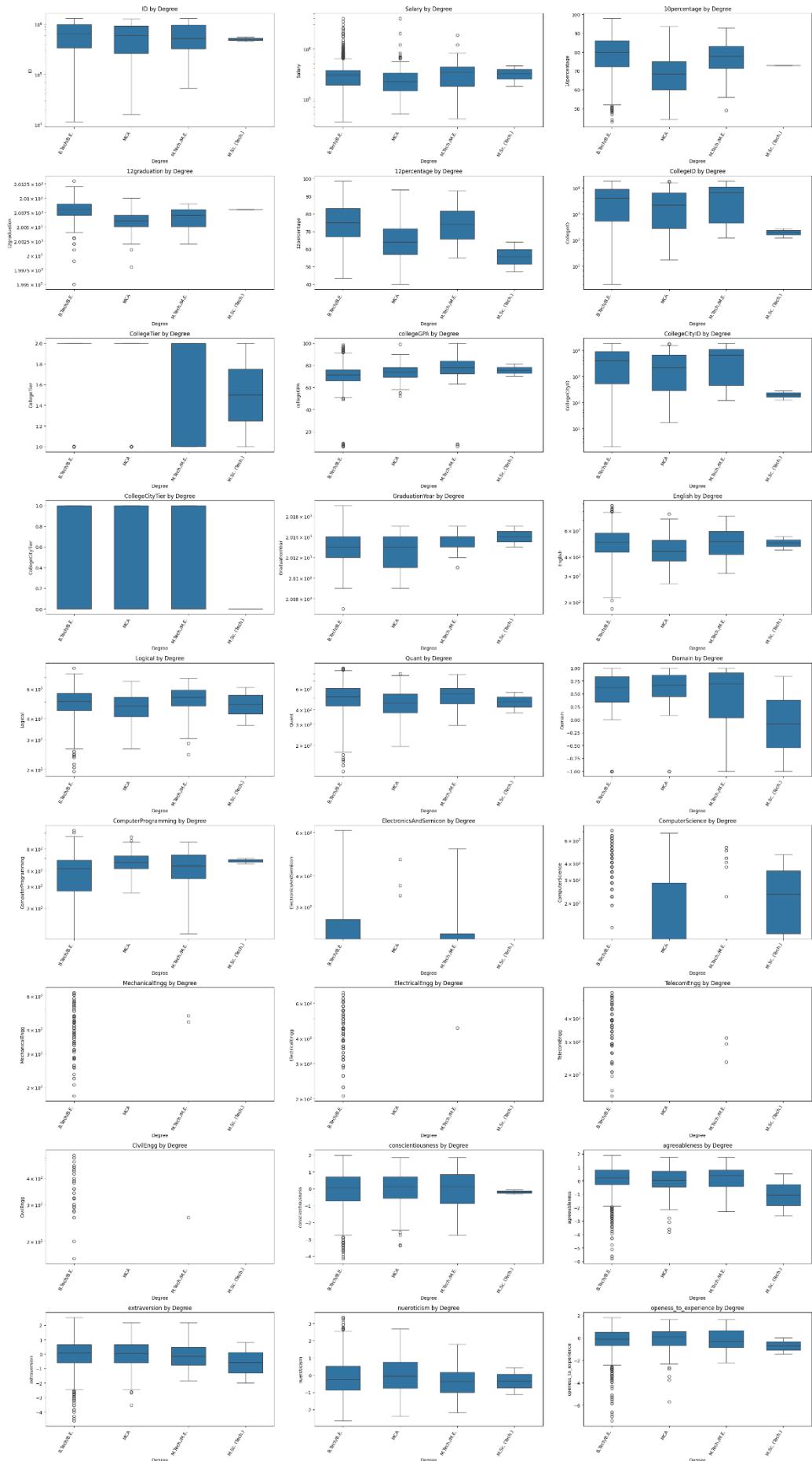
- **College Percentage by 12board:**
 - There are visible variations, but the distributions are not drastically different.
- **College City by 12board:**
 - This might be categorical; the plot seems to indicate different cities where students from different boards are admitted.

3. Skill-based & Subject Scores

- **English, Logic, Quant by 12board:**
 - The distributions are relatively uniform with some outliers.
- **Domain Knowledge:**
 - Shows slight variations between boards.
- **Computer Programming, Electronics, Mechanical Eng, Civil Eng, etc.:**
 - Some subjects have a highly skewed distribution with many outliers.

4. Personality Traits

- **Big Five Traits (Extraversion, Conscientiousness, Neuroticism, Agreeableness, Openness to Experience) by 12board:**
 - The distributions show slight variations but remain centered around similar medians.



10th & 12th Percentage by Degree:

- Different degree types show slight variation in median values.
- Some degrees have a larger spread, with many outliers indicating inconsistency in scores.

Graduation Score by Degree:

- Similar trend with some variation in performance across degrees.
- Some degrees show a more concentrated distribution, while others have a wider range.

Salary Distribution by Degree

- There are noticeable variations in salary levels.
- Some degrees have a broader distribution with more outliers (suggesting individuals earning significantly more or less than the median).
- Median salaries differ across degrees.

College Percentage by Degree:

- The median values and spread of scores vary.
- Some degrees have a much tighter distribution compared to others.

College City by Degree:

- Different distributions might indicate geographical clustering of specific degrees.

Logical, Quant, and English Scores by Degree:

- The median values across degrees remain close.
- Some degrees have a wider spread, indicating diverse skill levels.

Domain Knowledge by Degree:

- Variations exist, with certain degrees showing higher concentration around the median.

Computer Programming & Electronics Knowledge:

- Computer Programming scores show noticeable variation across degrees.
- Electronics-related knowledge is skewed, indicating specialized degrees performing better.

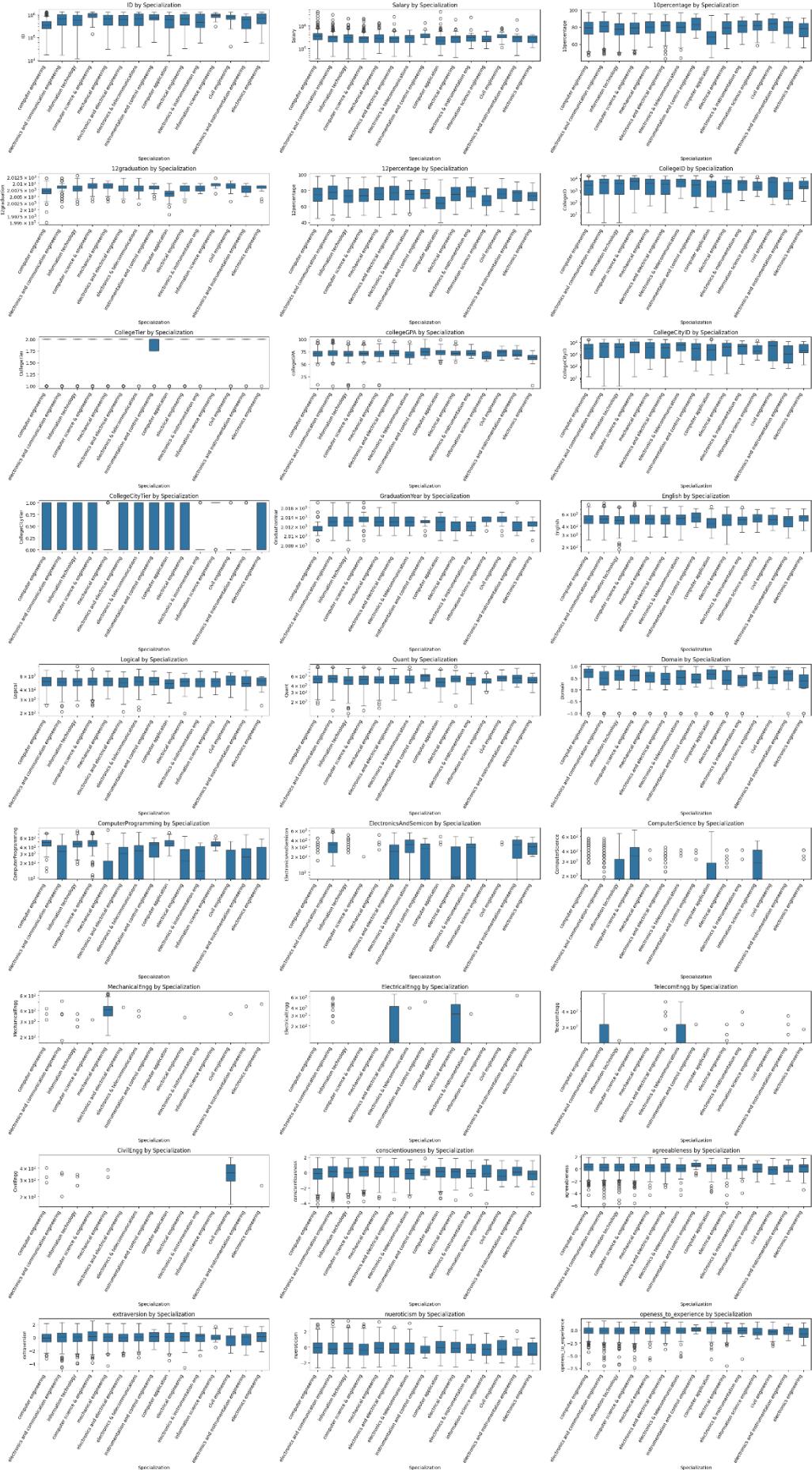
Engineering Specializations

- **Mechanical, Civil, Electrical, and Telecom Engineering:**

- Some degrees have a significant number of outliers, suggesting that students in certain degrees score either exceptionally well or poorly.

Conscientiousness, Agreeableness, Openness to Experience, Extraversion, and Neuroticism:

- Most traits appear to have similar medians across degrees, but some degrees show larger variability.
- Outliers suggest individual differences in traits across different degrees.



10th & 12th Percentage by Specialization:

- Most specializations have similar median values.
- A few specializations show more variability, with some having a wider range and more outliers.

Graduation Percentage by Specialization:

- Differences exist in how various specializations perform academically.
- Certain specializations have a more concentrated distribution, while others show a wider spread.

Salary Distribution by Specialization

- There are noticeable variations in salaries across different specializations.
- Some specializations have a larger spread, indicating individuals earning significantly more or less than the median.
- A few specializations show a higher median salary compared to others.

College Percentage by Specialization:

- The spread of scores varies across specializations.
- Some specializations have consistently high scores, while others show greater variation.

College City & College Tier by Specialization:

- These metrics help identify if a specialization is more common in specific locations or institutions.

Logical, Quantitative, and English Scores by Specialization:

- Most specializations have similar median scores.
- Some specializations show a wider spread in scores, suggesting varied competency levels among students.

Domain Knowledge by Specialization:

- Some specializations have a distinct advantage in domain knowledge, showing higher median values.

Computer Programming & Electronics Knowledge:

- Specializations related to technical fields exhibit more variation.
- Certain specializations perform significantly better in these areas.

Mechanical, Civil, Electrical, and Telecom Engineering:

- Outliers indicate students performing exceptionally well or poorly.
- Some specializations have a tighter distribution, suggesting more consistent performance.

Conscientiousness, Agreeableness, Openness to Experience, Extraversion, and Neuroticism:

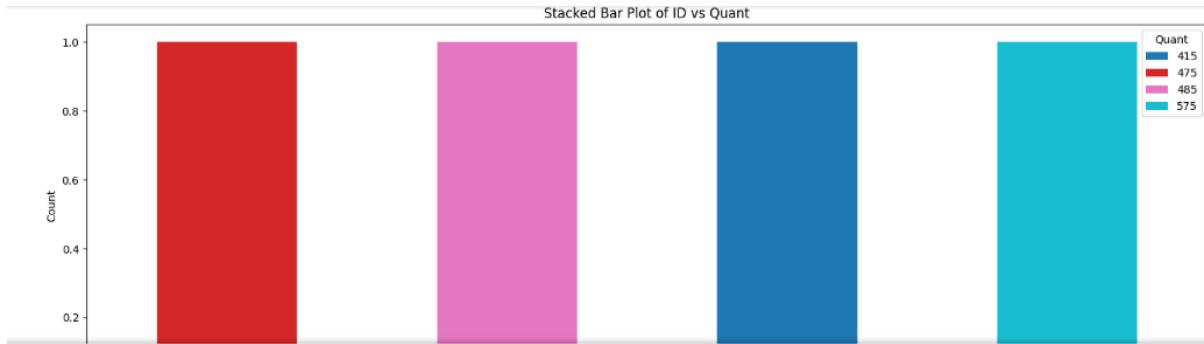
- The traits are generally evenly distributed across specializations.
- Some specializations have individuals with a wider range of personality characteristics.



- **10th & 12th Percentage by College State:**
 - Most states have similar median values, but some show a higher concentration of outliers.
 - Certain states exhibit a wider range of scores, indicating varying student performance levels.
- **Graduation Percentage by College State:**
 - Graduation scores vary across states. Some states have a consistently high median, while others show more variability.
- **Salary Distribution by College State**
 - Salaries show significant variations across states.
 - Some states have a higher median salary, while others have a larger spread with more outliers.
 - This suggests that job opportunities or industry presence could be influencing salaries differently across states.
- **College Percentage by State:**
 - Some states have a more consistent distribution of college performance.
 - Certain states show wider variability, indicating differences in educational quality.
- **College Tier & College City by State:**
 - College tiers appear more concentrated in a few states.
 - Some states have a broader range of cities with varying college quality.
- **Logical, Quantitative, and English Scores by State:**
 - There is noticeable variation in these scores across states.
 - Some states have higher median scores, while others show a more even distribution.
- **Domain Knowledge by State:**
 - Some states exhibit stronger domain knowledge performance.
- **Computer Programming & Electronics Knowledge:**
 - Certain states show higher proficiency in these technical skills.
 - Outliers suggest that some students in specific states excel significantly beyond the median.
- **Mechanical, Civil, Electrical, and Telecom Engineering Knowledge:**
 - Some states exhibit better performance in specific engineering disciplines.
 - Certain states show a wider spread, suggesting diverse student performance.
- **Conscientiousness, Agreeableness, Openness to Experience, Extraversion, and Neuroticism:**

- These traits show relatively similar distributions across states.
- Some states have wider spreads, indicating more diverse personality traits among students.

Stacked bar plots for bivariate analysis of categorical columns vs categorical analysis.



Equal Bar Heights:

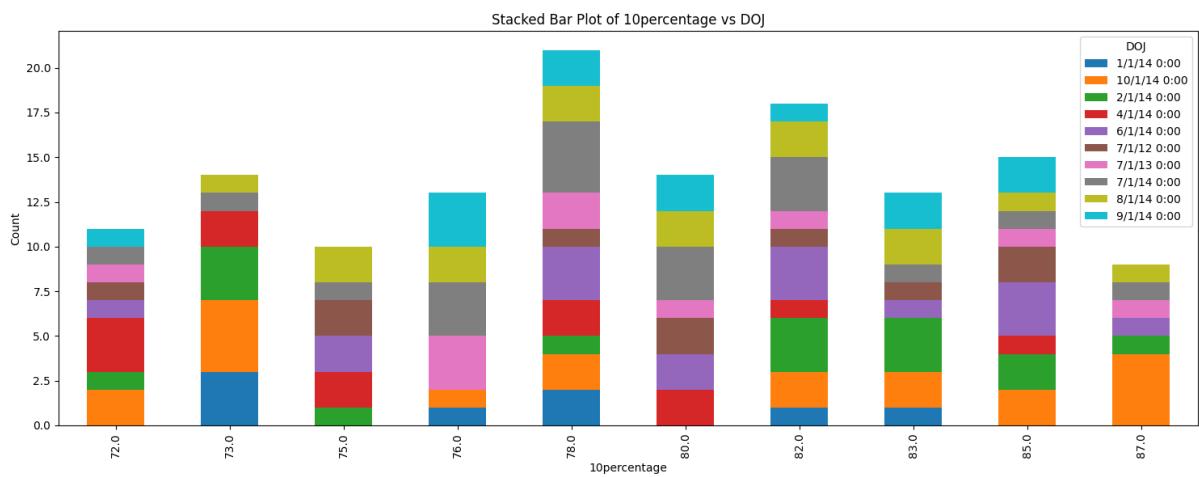
- Since all bars are reaching the same height (1), it suggests that each ID is associated with exactly one Quant value.

Different Colors:

- Each bar has a single color, meaning there is a one-to-one mapping between ID and Quant.

Legend on the Right:

- Indicates which color corresponds to which Quant value.



Tall bars → More students have that specific 10th percentage.

Variation in colors → Distribution of students with different DOJ across percentages.

Clusters at higher percentages → Indicates that more candidates with higher scores are getting placed.

A dominant color in a percentage range → More candidates from a specific DOJ belong to that score range.