**🔍 General Experience Questions**

**Q1: Can you walk me through your internship at Acmegrade Pvt Ltd?**  
👉 *Sure! I worked as a Data Science Intern for 2 months. My work focused on data cleaning, preprocessing, building dashboards using Power BI and Tableau, and automating data analysis workflows. These efforts helped improve data accuracy and save manual effort.*

**Q2: What was your role in the data cleaning and preprocessing tasks?**  
👉 *I handled missing values, removed outliers, and standardized data formats. I used tools like Python (Pandas, NumPy) to automate these tasks, which improved overall data accuracy by 25%.*

**Q3: Can you explain how you improved data accuracy by 25%?**  
👉 *I identified inconsistencies like null values, incorrect formats, and duplicate entries in the dataset. I wrote preprocessing scripts using Pandas to clean and normalize the data, which led to more reliable insights and models.*

**Q4: What kind of datasets were you working with?**  
👉 *I worked on industry-specific datasets like sales, customer feedback, and product performance data. These were mostly structured datasets in Excel/CSV format.*

**Q5: What was your biggest challenge during the internship?**  
👉 *One challenge was dealing with messy and incomplete data. I overcame it by automating missing value imputation and validation checks using Python. Another challenge was making dashboards user-friendly for non-tech teams.*

**📊 Dashboarding Questions (Power BI & Tableau)**

**Q6: How did you use Power BI and Tableau in your internship?**  
👉 *I used both tools to create dashboards that visualize key metrics like sales trends, product performance, and customer feedback. These dashboards helped teams make faster, data-driven decisions.*

**Q7: Which one do you prefer — Power BI or Tableau, and why?**  
👉 *Both are great, but I slightly prefer Power BI due to better integration with Excel and Microsoft services. It’s also easier for beginners and stakeholders to understand.*

**Q8: What type of charts or visuals did you use in your dashboards?**  
👉 *I used bar charts, pie charts, line graphs, KPIs, filters, slicers, and maps depending on the data. I focused on keeping visuals simple, clear, and insightful.*

**Q9: Can you describe a dashboard you built and how it helped the business?**  
👉 *One dashboard showed sales performance by region and product category. It helped managers identify low-performing areas and shift their focus. This improved strategic planning.*

**⚙️ Automation & Python Questions**

**Q10: How did you automate the data analysis process?**  
👉 *I wrote Python scripts that cleaned and analyzed data in batches. I automated steps like reading files, merging datasets, preprocessing, and exporting results to Excel or visualization tools.*

**Q11: What libraries did you use for automation and analysis?**  
👉 *Mainly Pandas and NumPy for preprocessing, Matplotlib and Seaborn for data visualization, and openpyxl for Excel handling.*

**Q12: How much time did automation save, and how?**  
👉 *It saved around 30% of the manual work time. Previously, data analysts would clean and prepare data manually. My scripts did it automatically for new data uploads.*

**📁 Project-Based & Scenario Questions**

**Q13: Suppose your dashboard is showing incorrect results. How would you debug it?**  
👉 *First, I’d check the raw data source to ensure it’s correct. Then, I’d verify calculations and filters applied in the dashboard. If needed, I’d trace it back to the preprocessing script.*

**Q14: How do you handle missing values in data?**  
👉 *I check the nature of the column. For numeric fields, I use mean/median imputation. For categorical fields, I use mode or a placeholder like ‘Unknown’. Sometimes I drop rows if too many values are missing.*

**Q15: What is the difference between data cleaning and data preprocessing?**  
👉 *Data cleaning involves removing errors, nulls, and duplicates. Preprocessing includes steps like normalization, encoding, and feature engineering to make data suitable for analysis or modeling.*

**Q16: How do you ensure data security or handle sensitive data?**  
👉 *I avoid using real customer names or emails unless anonymized. I followed best practices like working with sample datasets or masking sensitive fields when visualizing.*

**💬 Reflection/Soft Skills Questions**

**Q17: What did you learn from this internship?**  
👉 *I gained practical skills in data cleaning, dashboarding, and automation. I also learned to present findings clearly and collaborate with non-technical stakeholders.*

**Q18: If given more time, what would you improve in your work?**  
👉 *I’d work on adding predictive analytics using machine learning. I’d also try using scheduling tools like Airflow to automate workflows on a regular basis.*

**Q19: How did this internship shape your career interest?**  
👉 *It made me realize how powerful data can be in shaping business decisions. It pushed me toward data analytics and machine learning as a career path.*

**Q20: How did you work with others during the internship?**  
👉 *I collaborated with my mentor, shared progress regularly, and adjusted my dashboards based on feedback from different departments.*