

C1: Top 20 Behavioural Interview Questions

1. Tell me about yourself.
2. Walk me through your resume.
3. Why are you interested in this role and our organisation?
4. What motivates you to work in data-related roles?
5. Describe a time you managed multiple priorities or projects at once. How did you handle it?
6. How do you deal with stress or tight deadlines?
7. Tell me about a time you faced a conflict within a team. How did you handle it?
8. Describe a situation where you had to explain a technical concept to a non-technical audience.
9. Tell me about a mistake you made in a project. How did you handle it and what did you learn?
10. Give an example of a time you identified a problem and used data to solve it.
11. Tell me about a time when you had to work with incomplete or messy data. What did you do?
12. Describe a challenging project you worked on and how you managed it.
13. How do you prioritise tasks when everything seems urgent?
14. Tell me about a time you received constructive criticism. How did you respond?
15. Have you ever disagreed with your manager or stakeholder on an approach? What did you do?
16. Tell me about a time you improved a process using data or technology.
17. Give an example of working in a cross-functional team (e.g., IT, business, operations).

18. How do you make sure your work aligns with business goals?
19. What are your long-term career goals, and how does this role fit in?
20. Why do you want to work in Northern Territory, specifically?

C2: Top 20 Technical Questions

(These are tailored to your CV: SQL, Power BI, Python, Data Studio, Excel, Transformer-based NLP project, NT Government Fuel Analysis project, Software Testing, GitHub, etc.)

1. Walk me through a project where you used SQL extensively. Can you write a query to find the top 5 products by sales in each region?
2. What are window functions in SQL, and when would you use them?
3. How do you optimise a slow SQL query?
4. In Power BI, how do you build a dynamic dashboard? Can you explain DAX measures you've created?
5. How would you handle large datasets in Power BI without performance issues?
6. Can you explain how you used Google Data Studio for KPI monitoring at Daraz?
7. Compare Excel vs SQL vs Power BI for reporting. When would you use each?
8. In your Transformer-based NLP thesis, what was the biggest challenge in handling Bengali text?
9. How do Transformer models (like BERT) differ from traditional RNN/LSTM approaches?
10. You mentioned working on bird audio classification with AST. What input preprocessing steps were required?
11. Can you explain loop invariants and how you applied them in algorithm correctness proofs?
12. In your software testing project, how did you apply Test-Driven Development (TDD)?
13. What tools did you use for code quality (e.g., pylint, flake8)? Why are they important?

14. You did an NT Fuel Analysis project—what insights did you extract, and how would you extend it for business use?
15. How do you perform data cleaning and preprocessing in Python? Can you share some techniques?
16. What Python libraries have you used most in data projects? (e.g., pandas, matplotlib, scikit-learn, transformers)
17. How would you design a simple data pipeline for real-time reporting?
18. What is the difference between data warehouse vs data lake? Which one did you work closest to?
19. How do you approach hypothesis testing and p-value interpretation in your well-being/screen time project?
20. You have worked with GitHub—can you walk through your workflow for version control in a data project?

C2: Top 20 Technical Questions (My Resume-Based)

SQL, Databases, and ETL

1. You've worked with MySQL, MSSQL, and Oracle PL/SQL. Can you explain key differences between them?
2. Write a SQL query to find the top 3 customers with the highest purchase amount in the last 30 days.
3. How do you optimise a SQL query that is running slowly?
4. What are ETL processes? Walk me through one you have designed or worked on.
5. How would you implement a data warehouse for a retail business?

Data Analytics & BI Tools

6. Can you explain a project where you used Power BI? How did you use DAX or measures?
7. How do you ensure performance in a large Power BI dashboard?
8. Compare Excel vs Power BI for analytics—when would you use one over the other?
9. Walk me through a time you built an interactive dashboard for stakeholders.

Programming & Development

10. You've listed Python and .NET. Can you explain a project where you used them for data/analytics?
11. What is FastAPI and how have you used it to build APIs or microservices?
12. Explain Object-Oriented Programming (OOP) concepts and how you applied them in your work.
13. How do you use Pytest for testing? Can you show an example of a unit test?

14. You've worked with Docker—how would you containerize a data pipeline or ML model?

Machine Learning & NLP

15. In your thesis on Transformer-based urgent text detection in Bengali, what challenges did you face and how did you overcome them?

16. Explain how a NER (Named Entity Recognition) model works. What improvements did you make at GigaTech?

17. You co-authored a publication on sarcasm detection (Ben-Sarc Corpus). What methodology did you use?

18. How would you explain deep learning vs traditional ML to a non-technical stakeholder?

Cloud, Collaboration, and Projects

19. You've listed AWS and Azure (basic knowledge). What's the difference between cloud-based data warehousing vs on-premise?

20. You've used GitHub, Jira, and Teams. Walk me through your workflow for collaborating on a data or ML project with a team.