Hello, it's a pleasure to meet you. My name is Anisha from India . I hold a Master's degree in Statistics and a Bachelor's degree in Mathematics, both from Madras Christian College. My academic background laid a solid foundation for my data science career, and I've further strengthened these skills with various certifications in Python, R, SPSS, SQL, and SAS. Post graduation, I begin my professional journey in Cognizant I gained proficiency in machine learning models like linear regression, logistic regression, , deep learning , nlp and generative ai   
  
I worked on various projects . I have been part of the US Bank PPNR project, where I worked on the Wholesale Loan Prepayment Model, where I developed a Logistic Survival Regression framework to project voluntary prepayments., leading to a significant reduction in the RMSE metric when compared with the previous version of that model . I've also modelled credit risk for individual borrowers, addressing components such as Probability of Default, Loss Given Default, and Exposure At Default for which I received appreciation from our leaderships.  
Along with this, I have been a part of various GEN AI projects. This includes developing an AI-based address matching solution with a high accuracy rate, an audit solution that assists auditors with compliance, an insurance claim assistant to help the claims adjustor, and an AI-powered payment assistant. These projects have allowed me to apply my machine learning and AI skills in a practical, real-world context.  
Along with my professional journey, I did various certifications on machine learning, python , generative ai and so on   
In addition to my professional and academic qualifications, I'm an adept problem-solver, with the ability to view situations from multiple perspectives. I have a knack for distilling complex information into actionable insights, a skill that has been invaluable in my role. My presentation skills, too, have been a key asset in explaining our findings to stakeholders.  
  
Outside of work, I enjoy photography. I believe that capturing moments allows us to freeze memories and cherish them for a lifetime. This hobby of mine has also honed my ability to view things from different perspectives, a skill I find extremely useful in my professional life as well.  
  
To sum up, I am an experienced Data Scientist with a deep understanding of statistical techniques and a passion for problem-solving. I am eager to bring my skills and expertise to new challenges and continue to grow in this field. Thank you for your time and consideration.

I am going to get interviewd at shell. I want you tell respond to the questions wich i am going to ask now in such a way of how i responds to it. below are the details about me.

PROFILE

Detail-oriented professional with a strong foundation in data analysis, machine learning, and advanced algorithms. Proficient in handling

large datasets and deploying data-driven solutions in real-time environments. Solid background in cross-functional teamwork, risk

assessment, and ethical decision-making processes. Eager to leverage my skills in data analysis and advanced technologies to accelerate

growth and optimize decision-making processes.

PROFESSIONAL EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS Jul 2022 - Present

Data Scientist (Grade – Programmer Analyst)

• Contributed to end-to-end data science projects in the banking and insurance services sectors, managing various aspects from data

exploration to model deployment.

• Applied advanced machine learning algorithms, GEN AI models, and statistical methodologies to support various business

initiatives.

• Collaborated with cross-functional teams and various stakeholders to translate business objectives into data-driven solutions.

• Managed multiple analytical projects and ad-hoc requests based on business needs.

CSIR- CENTRAL LEATHER RESEARCH INSTITUTE May 2021-Jun 2021

Data Analyst Intern

• Conducted in-depth time series analysis to identify patterns and trends to measure the success of key business outcomes.

• Implemented linear regression models to analyze variable relationships, providing actionable insights.

• Contributed to data collection, preprocessing, cleaning, and validation, ensuring the quality and integrity of datasets for modeling.

• Presented predictive model findings to the leadership team, emphasizing their value and impact on decision-making processes.

PROJECTS

GEN AI PROJECTS

• GEN AI Address Matching: Developed a Gen AI-based address matching solution with a focus on address correction, achieving

a high accuracy of more than 90% in test environment.

• GEN AI Audit Solution: This solution benefits auditors by identifying disclosure details, ensuring FASB compliance. It excels in

comparative analysis among industry peers, identifying presentation gaps and prescribing best practices.

• GEN AI Insurance Claim Assistant: Engineered synthetic data for insurance policies and claims, meticulously trained on diverse

scenarios to help claims adjustor using semantic RAG approaches.

• GEN AI Payment Assistant: This AI-powered Payment Assistant seamlessly interact with users, delivering highly informative

and personalized responses to their payment-related queries.

WHOLESALE LOAN PREPAYMENT MODEL

• Developed a Logistic Survival Regression framework to project voluntary prepayments for commercial loans in C&I Term, C&I

Revolver, and CRE Term segments.

• Employed the Exclusion/Inclusion waterfall technique for data cleaning and applied transformation to macro-economic variables.

• Performed post-model analysis, including CCAR Scenario Analysis, MEV Sensitivity Analysis, Benchmarking Analysis, Parameter

Sensitivity Analysis, and Performance Monitoring.

• Achieved a significant reduction in RMSE metric, validating the model's robust performance for production deployment.

ANISHA J

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CREDIT RISK MODELLING

• Modeled credit risk for individual borrowers using linear and logistic regression frameworks, addressing components such as

Probability of Default (PD), Loss Given Default (LGD), and Exposure At Default (EAD).

• Developed distinct models for each component and seamlessly integrated them to calculate overall Expected Losses.

EDUCATION

Master of Science in Statistics (CGPA – 9.1) 2020-2022

Madras Christian College, East Tambaram

Bachelor of Science in Mathematics (CGPA – 8.1) 2017-2020

Madras Christian College, East Tambaram

Relevant Coursework: Calculus, Probability, Big Data, Quality Control, Multivariate Analysis, Supply Chain Analytics

SKILLS

• Programming Languages: Python, SAS, R, SPSS

• Data Science Technologies: Machine Learning (Supervised, Unsupervised), Deep Learning, NLP, ETL Methods, Statistical

Algorithms,

• Generative AI Technologies: Lang chain, Prompt Engineering, Hugging Face, Open AI (GPT Models), Vertex AI (Gemini, Palm)

• Business Intelligence Tools: Tableau, Power BI, MS Office (Excel, PowerPoint, Word)

• Databases: SQL

• Cloud: Azure and GCP Fundamentals

• Soft Skills: Problem Solving, Decision Making, Analytical Thinking

CERTIFICATIONS

• GEN AI Fundamentals – Cognizant Dec 2023

• Career Essentials in Generative AI – Microsoft and LinkedIn Sep 2023

• AZ-900: Azure fundamentals – Microsoft Jun 2023

• AI-900: Azure AI fundamentals – Microsoft Jun 2023

• Python for Data Science and Machine Learning Bootcamp – Udemy Nov 2022

• The Complete SQL Bootcamp – Udemy Aug 2022

• Data Analytics Skilling Course – HOPE Foundation May 2021 - Mar 2022

• Python for Everybody Specialization – Coursera Feb 2021

OTHER ACCOMPLISHMENTS

• Recognized with multiple Cheer Awards from Cognizant for consistent support and active participation in hackathons.

• Underwent comprehensive AI/ML training to gain proficiency in data science technologies, skillfully utilizing libraries and

frameworks such as Sci-kit learn, Pandas, NumPy, TensorFlow, PyTorch, Keras, and Github for building and assessing models.

LANGUAGES

English | Tamil | Malayalam

HOBBIES

Photography | Movies | Cooking

1. Tell me about yourself

Hello, my name is Anisha. I hold a Master's degree in Statistics and a Bachelor's degree in Mathematics from Madras Christian College. I am excited to apply my expertise in data science to contribute to the success of Shell.  
  
Throughout my academic and professional journey, I have gained proficiency in various programming languages and tools, including Python, R, SPSS, SQL, and SAS. I have also acquired experience in machine learning models, deep learning, NLP, and generative AI.

I am currently working as a data scientist in cts where my works mainly focused , I successfully delivered end-to-end data science projects in the banking and insurance services sectors, handling large datasets and deploying data-driven solutions in real-time environments.  
  
What sets me apart is my ability to distill complex information into actionable insights. I am a problem-solver with a knack for viewing situations from multiple perspectives, a skill that I believe aligns well with Shell's commitment to innovation and finding sustainable solutions.  
  
I am passionate about leveraging advanced machine learning algorithms, GEN AI models, and statistical methodologies to support various business initiatives. I am confident that my skills and expertise can contribute to Shell's data-driven approach and help drive positive change.  
  
Outside of work, I am an avid photographer, which has honed my ability to view things from different perspectives. This skill has proven invaluable in my professional life as well, allowing me to approach challenges with a fresh and creative mindset.  
  
In summary, I am an experienced Data Scientist who is eager to bring my skills and expertise to Shell. I am confident that my deep understanding of statistical techniques and passion for problem-solving align perfectly with Shell's values and goals. Thank you for considering my application, and I look forward to the opportunity to contribute to Shell's success.

Tell me about a time when you had to work with a person who had a different opinion than you. How did you manage the conversation?

"In my current role as a Data Scientist at Cognizant, I frequently work on cross-functional teams comprising various stakeholders. In one instance, we were working on a project that involved deploying a new machine learning model for a banking client. I suggested using a particular approach that I believed would yield the most accurate results. However, a senior member of the team had a different opinion and believed that a more traditional approach would be better.

Acknowledging that he had more experience in this field, I initiated a conversation to understand his perspective. We discussed the pros and cons of each method in detail. Although we had different opinions, we maintained a constructive and respectful conversation focused on achieving the best outcome for the project.

Through our discussion, I learned a lot from his experience and was able to see the merit in his approach. However, I also explained my viewpoint, illustrating how the newer approach could provide us with more accurate results and save processing time.

In the end, we decided to run small tests on both models. The test results showed that while both models were effective, the approach I suggested provided a slight edge in terms of accuracy and efficiency. The senior team member appreciated my initiative and we decided to implement the newer approach, which ultimately led to the success of the project.

This experience taught me the value of open communication, respect for diverse opinions, and data-driven decision making in a professional setting."

Why are you interested in working at Shell?

"I am interested in working at Shell because it is a globally recognized company known for its innovation, technology advancements, and commitment to sustainable energy solutions. I admire the company's ambitious goals towards clean energy and its strong focus on digital transformation, which resonates with my passion for data science and advanced technologies.

I believe my skills in data analysis, machine learning, and managing large datasets can contribute to Shell's ongoing digital innovation projects, particularly in the realm of energy efficiency and reducing environmental impact. Moreover, the opportunity to work in a multicultural and multidisciplinary environment like Shell is exciting as it would allow me to learn from diverse perspectives, share my knowledge, and grow professionally.

Furthermore, Shell's commitment to personal development and employee growth aligns with my own career aspirations. I'm particularly interested in the numerous training and development programs Shell offers, as I am always eager to expand my skills and knowledge.

In essence, I see a position at Shell as a unique opportunity to apply my technical skills to meaningful projects, contribute to sustainable energy solutions, and grow as a professional in the energy sector."

A time when you worked with someone with a different workstyle to you

"In my current role as a Data Scientist at Cognizant, I often work in cross-functional teams, which means I encounter a range of work styles. There was a particular instance where I had to work closely with a colleague who had a significantly different work style than mine.

While I am detail-oriented and like to plan my work in advance, my colleague was more spontaneous and preferred to tackle issues as they arose. Initially, this caused some misunderstandings. For example, I would spend time planning our tasks for the week while he would jump right into solving problems without much prior planning, which sometimes led to rework.

To manage this situation, we had an open conversation where we acknowledged our different work styles. We recognized that both of our approaches had their own merits. Planning helped in organizing and prioritizing our work, while a spontaneous approach allowed for quickly addressing immediate issues.

We decided to leverage the strengths of both our work styles. We agreed that I would create an overall plan for our tasks, and he would handle urgent, unplanned issues that needed immediate attention. We also decided to have regular check-ins to update each other on our progress and any new issues that arose.

This experience taught me that diverse work styles can coexist and even complement each other in a team. It also reinforced the importance of communication and flexibility in a collaborative work environment."

A time you've worked with someone who had different sensitive beliefs

I remember a particular instance where I had to collaborate closely with a team member who had very different sensitive beliefs from mine, due to our different cultural and religious backgrounds.

This became apparent during a project where we were developing an AI model for a banking client. My colleague strongly believed in certain ethical guidelines informed by his beliefs that were not initially part of our project's scope.

Recognizing the importance of respecting everyone's beliefs and the potential ethical implications of our work, I initiated a conversation with him. We had an open and respectful discussion about our different perspectives. I learned a lot about his viewpoint, and he was open to understanding mine.

We then decided to bring our concerns to the broader team and management, advocating for a more comprehensive ethical framework for our AI models. Our diverse perspectives actually led to a more robust ethical guideline that not only satisfied my colleague's sensitive beliefs but also improved the overall quality and fairness of our models.

This experience taught me the importance of understanding and respecting different beliefs in the workplace, even if they're sensitive. It also showed me that these differences, when managed appropriately, can add value to our work and lead to better outcomes."

What did you do when you receive a negative feedback?

"In my role as a Data Scientist at Cognizant, receiving feedback, both positive and negative, is a part of the job. I believe negative feedback is an opportunity to learn and grow.

There was an instance when I received negative feedback from a project lead about my presentation skills during a project update meeting. He pointed out that my presentation was too technical for some of the non-technical stakeholders, which made it difficult for them to fully understand the project's progress and implications.

Rather than taking it personally, I took it as constructive criticism. I thanked my project lead for his honest feedback and immediately set about improving. I enrolled in a professional communication course focused on explaining complex technical concepts in a simple, understandable way. I also started practicing my presentations with a peer before the actual meetings to ensure that my points were clear and accessible to all audience members, regardless of their technical background.

At the next project update meeting, I implemented what I learned, and the feedback was much more positive. The stakeholders appreciated the clear and straightforward explanation of the project's status and its impact.

This experience taught me the value of constructive criticism and the importance of effective communication in a diverse team. It also reinforced the idea that there's always room for improvement, and one should be open to learning and growing from feedback."

Describe a time when you needed to ask for feedback or advice. What help were you given and how did you respond?

"In my previous role as a Data Scientist at Cognizant, I was working on a project where we were implementing a new machine learning model for predicting customer churn. Despite my efforts, I was having trouble improving the model's accuracy beyond a certain point.

Recognizing that I needed help, I reached out to a senior colleague who had extensive experience in predictive modeling. I explained the situation and asked for his advice on how I could enhance the model's performance.

He suggested several techniques, including feature engineering and trying out different algorithms that I hadn't considered before. He also recommended some resources where I could learn more about these techniques and offered to review my work once I had implemented the changes.

I was grateful for his advice and immediately set about applying it. I spent the next few days studying the techniques he had suggested and implementing them in my model. I then shared my revised work with him for feedback.

The result was a significant improvement in the model's accuracy. His advice not only helped me overcome the immediate challenge but also taught me valuable techniques that I have since used in other projects.

I thanked my colleague for his guidance and made sure to offer my help to others in the team, fostering a culture of knowledge sharing and mutual support. This experience reinforced the importance of seeking help when needed and the value of collaborative problem-solving."