Interview Questions that should be asked

Q1 Tell me about yourself?

Good morning/afternoon, sir/ma'am.  
First of all, thank you for allowing me to introduce myself. My name is Lakshay Bansal, currently in my final year of pursuing a B.E. in Computer Engineering from Thapar Institute of Engineering & Technology, with a CGPA of 8.55. I have a strong foundation in programming languages like C++, Python, and JavaScript, and I'm skilled in using tools and frameworks such as React, Node.js, and MongoDB. Throughout my academic journey, I've worked on several projects, including a Stock Price Predictor using Python's scikit-learn and a Food Delivery Website built with the MERN stack. Currently, I'm developing a Punjabi chatbot using Large Language Models. In addition to my technical skills, I've been actively involved in extracurricular activities, such as volunteering for Pratigya Abhiyan, where I provided education to underprivileged students. I'm passionate about learning new technologies and am eager to apply my skills in real-world scenarios, making a meaningful impact through my work.

Q2 Why should we hire you? (Read the job description carefully)

I am confident that I would be a great fit for this role and a valuable asset to your company. As a lifelong learner, I am eager to expand my skills and knowledge within your organization.  
My resilience enables me to stay focused and deliver results even in high-pressure, demanding situations. Additionally, my enthusiasm for collaborating with others and improving processes makes me a great fit for your company culture."

Q3 tell me about your strengths and weaknesses?

My strengths are the following.  
I believe in teamwork, team spirit will lead to success. I am a fast learner. I can adapt to new environments easily.  
My weaknesses are:

I trust anyone easily. I am a little bit emotional.

Q4 What are your Goals?

My short-term goal is to get a job in a reputed company in which I can grow my working skills.  
My long-term goal is to see myself as a back bone of my organization.

Q5 How much salary do you expect?

As a fresher, I am looking for a place to start my career as a developer in your company. This is a great opportunity for me.  
My main goal is to learn and develop my skills. I believe the salary you offer will cover my basic needs.

Q6 Why do you want to work at our company?

It is a great honour and respect for anyone to work in a reputed company like yours your company has a great working culture and provides a lot of opportunities to the freshers.  
  
When I researched your company's job profile I found that my subject and skills are matching with your job requirements, where I can enhance my knowledge and skills.  
I'll try to give my best efforts towards company growth.

Q7 Can you work under Pressure?

Yes, I can work effectively under pressure.  
I believe stepping out of my comfort zone and thriving in challenging situations is essential for growth and gaining experience. Just like a diamond is formed under pressure, I understand that managing and excelling under stress is key to shining in any role.

Q8 Are u Willing to relocate or travel?

Yes, I am definitely open to relocation or travel opportunities. I believe that new experiences and environments can contribute to personal and professional growth. I am adaptable and eager to embrace new challenges and opportunities that come with relocation or travel.  
  
Additionally, I understand the importance of being flexible and willing to go where the job requires in order to contribute effectively to the team and the organization's goals. I am fully committed to making the most out of any opportunity presented to me and am excited about the prospect of new experiences and adventures.

Q9 How long would you expect to work for us if hired?

I continue to work for your company as long as I think that my presence is beneficial for the company as well as for me. I believe that the company can offer me a most satisfying career where I can learn new skills and different challenges so that I can contribute to the success of the company.

Q10 Where do you see yourself in next 5 years?

In the next five years, I see myself in a responsible position where I can apply the skills I've learned to contribute significantly to the company's success. I aspire to be in a team lead role, guiding projects and helping drive the company's growth.

Q11 Do you have any Questions for me?

Firstly, thank you for giving the opportunity.

Sir, Can you share more about day to day responsibilities for this role?

Sir, On which Technology stack or projects you are working on?

(or any other questions)

### **Q12 Tell me about a time you faced a challenge and how you handled it.**

**Answer:** "During my Stock Price Predictor project, I faced a challenge with data accuracy and model overfitting. Initially, my model performed well on the training data but poorly on the test data. To address this, I revisited my data preprocessing steps, improved feature selection, and used cross-validation to better tune the model. This resulted in more reliable predictions and taught me the importance of iterating and refining my approach when faced with challenges."

### Q13 **How do you handle stress or pressure?**

**Answer:** "I handle stress by breaking down tasks into smaller, manageable pieces and setting clear priorities. I’ve found that creating a timeline helps me stay focused and reduces overwhelm. Additionally, I try to maintain a healthy work-life balance by taking breaks and staying organized, which helps me stay calm and perform well under pressure."

**Q14 How do you prioritize your tasks?**

I prioritize my tasks by first identifying which are the most urgent and important. If multiple tasks are equally important, I try to focus on the tasks that will have the most significant impact on overall project progress.

### Q15 **What motivates you?**

**Answer:** "What motivates me the most is the opportunity to solve complex problems and see tangible results from my work. I enjoy working on projects that challenge me to think critically, like developing efficient software solutions or improving user experiences. Additionally, continuous learning and professional growth are strong motivators, as I always strive to stay ahead of technological trends and contribute meaningfully to my team."

### Q16 **Do you prefer to work in a team or independently?**

**Answer:** "I enjoy both working independently and collaborating in a team. When working independently, I can focus deeply on solving complex problems, which I find very fulfilling. However, I also value teamwork, as it allows for idea-sharing and creative problem-solving.

Stock Price prediction project

In this stock price prediction project, we aimed to predict Tesla's stock prices using a combination of data analysis, visualization, and machine learning. The project begins with loading a historical dataset of Tesla stock prices, which includes features like opening, closing, high, and low prices over time. We first perform exploratory data analysis by plotting box plots to understand the distribution of stock prices across these categories. After converting the 'Date' column to a datetime format, we calculate the total duration covered by the dataset and visualize stock trends over time using Plotly for interactive plots.

To build the prediction model, we use linear regression, a simple yet effective machine learning technique. The date indices serve as the independent variable (X), while the closing stock prices are the dependent variable (Y). We split the dataset into training and testing sets, with 70% of the data for training and 30% for testing. Feature scaling is performed using StandardScaler to ensure that the model isn't biased by the scale of the features.

Once the model is trained, we use it to predict closing stock prices and visually compare the actual versus predicted values using scatter and line plots in Plotly. For model evaluation, metrics like R² score and Mean Squared Error (MSE) are calculated, providing insights into how well the model fits the data.

A key feature of this project is its real-time capability, integrated via the KiteConnect API. This allows fetching historical stock data and performing live stock trading by placing orders and retrieving real-time quotes. The fetch\_data.py and kite\_trade.py scripts handle the API calls, login, and interaction with the stock market data, adding robustness to the project by allowing for live predictions and trades. Finally, the project predicts stock prices for specific future dates using the trained linear regression model, making it a complete solution for stock price analysis, prediction, and live trading.