

8/10/2025
Tuesday

Machine Learning with Python

1. Tell me about yourself.

My name is Gayathri.K and I am a Computer Science and Engineering graduate from College of Engineering Poonjar, where I completed my BTech with CGPA of 7.81. Currently, I am working as a Trainee in Data Science at Bentu Technologies, where I have gained experience in Excel, Power BI, SQL and Python based Machine learning. I have worked on Projects such as Covid-19 dashboard, MS Dhoni ODI dashboard in Power BI and also cleaned and transformed data, created Pivot table and chart and visualized key performance metrics to support business decisions. Apart from this, I have hands-on-experience in full stack and MERN stack development as well. My technical toolkit includes Python, SQL, PowerBI, Excel, MySQL, MongoDB and Oracle, and I enjoy building dashboards and models that transform data into actionable insights. I am a quick learner, detail oriented and passionate about continuously growing in the field of Data Science by applying my analytical thinking to practical challenges.

2. Why did you choose a career in Data analytics or Data Science?

I chose a career in data science because I've always been fascinated about learning emerging technologies like AI and wanted to develop strong analytical and problem-solving skills. During my Computer Science Engineering studies, I was fascinated by how AI models could learn from data and make accurate predictions. This curiosity fueled me to explore more about Data Science. Through my internship, I gained hands-on-experience with tools like Python, PowerBI and SQL and I realized how data plays a crucial role in building intelligent systems.

3. What do you know about our company and why do you want to work here?

From my research, I understand that your company is highly recognized for its focus on innovation, digital transformation, and use of data-driven strategies to improve business performance. You have a strong reputation for applying advanced analytics and machine learning to solve complex challenges and deliver value to clients. I want to work here because your organization aligns with my passion for using data to create meaningful impact. I believe my foundation in Excel, Power BI, Python and SQL can contribute

effectively to your analytic team, while helping one grow professionally in a dynamic environment.

4. Describe a time when you faced a challenge in a project and how you handled it?

During my MS Dhoni ODI performance dashboard project, I faced a major challenge with mixed date formats, missing values and duplicate records which caused inaccurate visualizations in Power BI. To solve this, I used Power query to clean and standardize the data by converting all dates into a uniform format, removing duplicates and handling missing values with conditional logic. I also created new calculated columns such as Strike Rate vs Opposition and Runs per Ground to enhance the insights. After preparing the data, I built the visuals, including line & ribbon charts, with which clearly displayed Dhoni's performance trend over the years. This experience taught me the importance of proper data cleaning and preparation before visualization and strengthened my technical and problem-solving skills in Power BI.

5. How do you handle tight deadlines or pressure at work?

When working under tight deadlines, I always try staying organized and focused. I start by analyzing the overall project and breaking it into smaller tasks. I set clear priorities and allocate specific time slots for each task to ensure steady progress. During my internships, I managed such instances by focusing on the most critical parts first and automating repetitive steps whenever possible using formulas. I also maintain open communication with team members to avoid misunderstandings. I have learned that staying calm and solution-oriented, even when the workload is high, helps maintain both productivity and quality.

6. How do you explain complex data insights to non-technical people?

Communication is the most powerful tool when explaining complex insights to non-technical people. I focus on using simple language and visuals instead of technical terms. I could focus on what the insights are, such as which region performed best or where improvement was needed. I use Power BI and Excel visualizations like bar charts, line graphs and sliders to make the information easy to grasp.

7. Describe a situation when your analysis or recommendation made a positive impact.

While working on my Sales Dashboard project, I analyzed sales data and identified that certain regions consistently showed lower performance during specific months. My dashboard visually highlighted these trends through color-coded indicators, which caught management's attention. After presenting my analysis, I suggested launching targeted promotional campaigns in those low-performing regions and adjusting stock levels accordingly.

~~This insight~~ ~~were late~~, this experience reinforced my belief that data is powerful when it drives action.

8. How do you handle feedback or criticism?

I consider feedback as a key part of personal and professional growth. Whenever I receive criticism, I take it as an opportunity to learn rather than as a setback. During my learning, my mentors once pointed out that my data visualizations, though accurate, could be made more readable with better colour scheme and labels. Instead of taking it personally, I researched visualization best practices, applied those suggestions and significantly improved my dashboard's clarity. Throughout my experience, I have learned that constructive feedback helps refine both technical and communication skills. I believe a willingness to accept feedback and adapt quickly is essential in fast-evolving fields like data science.

9. What are your short-term and long-term career goals?

In the short term, my goal is to gain hands-on experience in data analysis, visualization and model development where I can apply my academic knowledge. I want to master tools like Python, R, PowerBI and SQL and work on real-time projects involving data pipelines, ETL and predictive analytics.

In the long term, I aim to become a Data Scientist, specializing in developing advanced analytical models and intelligent systems. I aspire to contribute to large-scale projects that solve meaningful problems in areas like education, business intelligence or healthcare. Eventually, I would also like to mentor aspiring data professionals.

and take up leadership responsibilities in the analytics field. My vision is to combine technical expertise with broader understanding to make impactful, data-driven decisions.

10. What motivates you to do your best work?

I am truly motivated in the process of turning raw, unstructured data into meaningful insights that influence real-world decisions. I find great satisfaction in solving analytical problems where my work directly contributes to improving performance or efficiency. I am also highly motivated by the opportunity to learn continuously, especially in fast-evolving areas like AI, machine learning and data visualization. The constant growth in this field keeps me curious and drives me to upskill myself regularly. Ultimately, the combination of learning, problem-solving and seeing my work make a tangible impact motivates me to always give my best.