Roadmap for Data Science - Data Visualization & BI

⚒ Skills to Develop:

☑ Technical Skills:

- **Data Visualization**: Tableau, Power BI, Looker, Matplotlib, Seaborn.
- **BI Tools & Dashboards**: SQL Server, Google Data Studio, DAX for Power BI.
- **Programming**: Python (Pandas, NumPy), R, SQL.
- **Big Data Technologies**: Hadoop, Spark, Google BigQuery.
- **Cloud Platforms**: AWS, Azure, Google Cloud (for cloud-based BI solutions).

☑ Soft Skills:

- **Storytelling with Data**: Presenting complex insights in a compelling way.
- **Critical Thinking & Business Acumen**: Understanding business challenges and translating them into data-driven solutions.

🗒 Certifications to Pursue:

1 Beginner-Level:

- Google Data Analytics Professional Certificate
- Microsoft Certified: Power BI Data Analyst Associate
- Tableau Desktop Specialist

2 Intermediate-Level:

- IBM Data Science Professional Certificate
- AWS Certified Data Analytics – Specialty
- Data Visualization with Python (Datacamp, Coursera)

③ **Advanced-Level:**

- Certified Business Intelligence Professional (CBIP)
- DASCA Senior Data Scientist
- Microsoft Certified: Azure Data Engineer Associate

🎯 Short-Term Goals (1-3 years):

☑ Learn **Power BI, Tableau, SQL**, and **Python for data visualization**.

☑ Complete at least one **certification** (e.g., Google Data Analytics, Power BI).

☑ Build a **portfolio with interactive dashboards** and real-world datasets.

☑ Gain hands-on experience through **internships or freelance projects**.

☑ Contribute to **open-source projects on GitHub** and participate in **Kaggle competitions**.

🚀 Long-Term Goals (5-10 years):

☑ Master **advanced BI tools** and work with **big data technologies**.

☑ Lead **BI and analytics projects** for large organizations.

☑ Specialize in a **domain (finance, healthcare, retail, etc.)** to become a subject matter expert.

☑ Become a **BI Architect, Director of Analytics, or Chief Data Officer (CDO)**.

☑ Teach, mentor, or contribute to the data science community through blogging, speaking at conferences, or developing training programs.