COMPREHENSIVE DATA ANALYST ROADMAP FOR FRESHERS

Hello, connections! I'm a young, self-taught data enthusiast, sprinting to reach my goals in the field of data science. Many people reach out to me for advice on roadmaps or questions about skills. I'm always here to share my knowledge, although there might be occasional delays or missed points.

I'm excited to share all the knowledge I've acquired so far through my research and experience. My goal is to provide valuable insights for self-taught learners, especially those who are just starting out in the field.

I have tried my best to provide valuable free content with free certificates. After conducting extensive research and gaining insights from working professionals, I've come to a conclusion: There is no full stop in this journey, only commas.

We should continuously learn in this field.

Data Analyst Domain Knowledge

➢ Free Data Analyst Bootcamp by Alex the Analyst : https://youtu.be/rGx1QNdYzvs.

➢ Data Analytics Essentials by Cisco : https://skillsforall.com/launch?id=1b81c11b-147b-49aa-8f87-a3469f24d280&tab=curriculum&view=c7452b03-72ac-5418-bdf3-47bb80648dc6](https://skillsforall.com/launch?id=1b81c11b-147b-49aa-8f87-a3469f24d280&tab=curriculum&view=c7452b03-72ac-5418-bdf3-47bb80648dc6.

➢ Data Science Fundamentals by IBM : https://students.yourlearning.ibm.com/credential/CREDLY-5ce6af3f-f3a2-4eb9-9d44-690812d45210.

SOFT SKILLS (MANDATORY) – Most of the people leaving this part.

➢ Ask and Make Data- Driven decisions Tutorial by Google Experts: https://youtu.be/sN-bTkkl0o8.

➢ Breaking Down a Problem by Tutorials point : https://youtu.be/uV18HsZRdk0.

➢ Problem Solving Skills by Khan Academy : https://www.youtube.com/playlist?list=PL6dL3ACWCL8fIB2l-UQNQbqhANl8g3avL.

➢ Critical Thinking by Birbeck, University of London : https://www.youtube.com/watch?v=AwbmMn-Z7a8.

➢ Analytical Thinking Skills by The Career Force : https://youtu.be/uV18HsZRdk0.

➢ Analytical Thinking Techniques by Sea John Thomspon : https://youtu.be/toJKbhgR1G4.

CORE SKILLS - Categorised by 3 level : Basics , Intermediate and Advance level.

EXCEL

- Excel by Simplilearn (Basic) **;** https://www.simplilearn.com/learn-ms-excel-free-training-course-skillup?tag=excel

- The Microsoft Excel Data Analysis Toolkit Bundle by Infosys Springboard (Intermediate**) :** https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01384379798902374447509_shared/overview

- Excel (Advance) by Infosys Springboard **:** https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01329489479539097637004_shared/overview

EXCEL PROJECTS

- Dashboard Making basics by Simplilearn **:** https://www.simplilearn.com/introduction-to-excel-dashboard-for-beginners-skillup?tag=excel.

- HR Dashboard (Intermediate) by Infosys Springboard **:** https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01384294151356416027100_shared/overview

- Valuation Project – Comcast (Advance) **:** https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01384346013094707238693_shared/overview.

SQL - **Structured Query Language**

- Basics by Simplilearn **:** https://www.simplilearn.com/free-online-course-to-learn-sql-basics-skillup?tag=sql

- Intermediate by Infosys Springboard **:** https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01384801829454643258485_shared/overview

- Advance by Alex the Analyst **:** - https://www.youtube.com/playlist?list=PLUaB-1hjhk8EBZNL4nx4Otoa5Wb--rEpU

DBT FRAME WORK – SQL – (OPTIONAL). But , I think it creates a demand in future according to my research.

- Basic – Advance in Single Tutorial **:** https://www.youtube.com/watch?v=5rNquRnNb4E&list=PLy4OcwImJzBLJzLYxpxaPUmCWp8j1esvT

STATISTICS & PROBABILITY FOR DATA SCIENCE:

- Basics by Infosys Springboard :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0138333028459642881 6/overview

- Intermediate by Infosys Springboard :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0131771723198545922 90_shared/overview
- Advance by Khan Academy : https://www.khanacademy.org/math/statistics-probability

- Full Tutorial by CodeBasics :
  https://www.youtube.com/playlist?list=PLeo1K3hjS3uuKaU2nBDwr6zrSOTzNCs0l

PROGRAMING LANGUAGE (R / PYTHON) :

R LANGUAGE

- Basic by Simplilearn : https://www.simplilearn.com/learn-data-science-with-r-basics-skillup?tag=r

- Intermediate by Infosys Springboard :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0130944322658795522 411_shared/overview

- Advance by Infosys Springboard :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0133013320253112329 538_shared/overview

PROJECT

- DATA ANALYSIS WITH R :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0130944394486005762 607_shared/overview

PYTHON LANGUAGE

- Basics with Simplilearn : https://www.simplilearn.com/getting-started-data-science-with-python-skillup?term=py

- Intermediate – Advance by Infosys Springboard (BEST ONE PERSONAL SUGGESTIONS)
  Pressure Quality 129 Hours Content. Link :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0138629142375137285 /overview

LIBRARIES

- Link : https://www.simplilearn.com/learn-python-libraries-free-course-skillup
  (For Libraries Alone).

FOLLOW : BHARATH S | LINKEDIN

PROJECT

➢ Data Analysis using Python :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0133039608821841923
5107_shared/overview

EDA - Exploratory Data Analysis

➢ Intermediate by Scaler (BEST) : https://www.scaler.com/topics/course/eda-and-data-
visualisation/

**MACHINE LEARNING & ARTIFICIAL INTELLIGENCE (BASIC – INTERMEDIATE CONCEPTS FOR ENTRY
LEVEL)**

➢ Basic by Simplilearn : https://www.youtube.com/live/wnqkfpCpK1g?feature=share

➢ Maths for ML : https://www.scaler.com/topics/course/mathematics-for-machine-learning-
free-course/

VISUALIZATION TOOLS (TABLEAU / POWER BI)

POWER BI

➢ Basic by Simplilearn : https://www.simplilearn.com/free-power-bi-data-modelling-course-
skillup?tag=power

➢ Intermediate by Infosys Springboard :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0138437115798405124
5623_shared/overview

➢ Advance by Infosys Springboard :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0138419229235609607
420_shared/overview

PROJECT

➢ Advance :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0138579196316303365
7779_shared/overview

TABLEAU

➢ Basics by Simplilearn : https://www.simplilearn.com/learn-tableau-online-free-course-
skillup?term=tab

➢ Intermediate by Infosys Springboard :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0133039556418437123
4740_shared/overview

➢ Advance by Infosys Springboard :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0132949013676195843
7347_shared/overview

PROJECTS

➢ Advance Level :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0133137616386129921
3141_shared/overview.

ETL – INFORMATICA

➢ Intellipaat Tutorial: : https://www.youtube.com/live/qXHRmkObG8c?feature=share.

MANAGEMENT TOOL – JIRA (OPTIONAL)

➢ Infosys Springboard :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0130944219832238082
205_shared/overview

GIT & GITHUB (OPTIONAL)

➢ Basics by Simplilearn : https://www.simplilearn.com/tutorials/git-tutorial/git-tutorial-for-beginner

COMBO COURSE

➢ VISUALIZATION USING TABLEAU, POWER BI, R, MATPLOTLIB by Simplilearn :
https://www.simplilearn.com/free-data-visualization-course-online-skillup

➢ PYTHON & SQL (Basics) by Scaler : https://www.scaler.com/topics/course/python-sql-data-science/

DATA ANALYST PROJECTS PLAYLIST

➢ Beginner series by CodeBasics :
https://www.youtube.com/watch?v=4QkYy1wANXA&list=PLeo1K3hjS3utcb9nKtanhcn8jd2E0
Hp9b

➢ Intermediate by Data Tutorials, Tool used : Excel, SQL, Tableau and Power BI.
Link : https://youtu.be/RX0ehXijbSk

➢ Advance by Infosys Springboard , Informatica Advanced with Projects using excel :
https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_0138426902745088002
0778_shared/overview

PORTFOLIO : https://youtu.be/ocdwh0KYeUs

**PROJECTS WORK BY OWN AFTER FAMILIAR WITH THIS STUFF , USING REAL WORLD DATA SETS AND
TRY TO IMPLEMENT YOUR THEORTICAL SKILLS INTO PRATICAL .**

ORTHER EXTRA STUFFS

➢ **Domain Knowledge (Basics)** : https://youtu.be/5KvhxtkdKWY
  you should research on own for each domain where you want to work.

OPTIONAL SKILLS (IF NEED REFER THIS)

➢ Mongo DB (NoSQL) :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_01329460721638604814371_shared/overview

➢ BIG DATA & HADOOP :
  https://infyspringboard.onwingspan.com/web/en/app/toc/lex_auth_013644992205414400312/overview

➢ DEEP LEARNING INTRO & TOOLS :
  BASICS : https://www.scaler.com/topics/course/deep-learning-free-course/

➢ keras & TensorFlow for DL : https://www.scaler.com/topics/course/keras-tensorflow-for-deep-learning/

➢ PyTorch for DL : https://www.scaler.com/topics/course/pytorch-for-deep-learning-free-course/

➢ TensorFlow for beginners : https://www.simplilearn.com/learn-tensorflow-basics-free-course-skillup?tag=BIG%20DATA

➢ Apache Spark Data Analytics for Beginners : https://www.simplilearn.com/learn-basics-of-data-analytics-with-spark-free-course-skillup?tag=BIG%20DATA

ALL THE BEST MY DEAR FRIENDS & COMMUNITY MEMBERS

THANK YOU ALL , FOLLOW ME FOR MORE CONTENTS LIKE THIS :
https://www.linkedin.com/in/bharath-s-700343250/

NEXT I WILL UPDATE HOW TO REACH DATA ANALYST INTERNSHIP WITHOUT ANY SELECTION PROCESS.

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