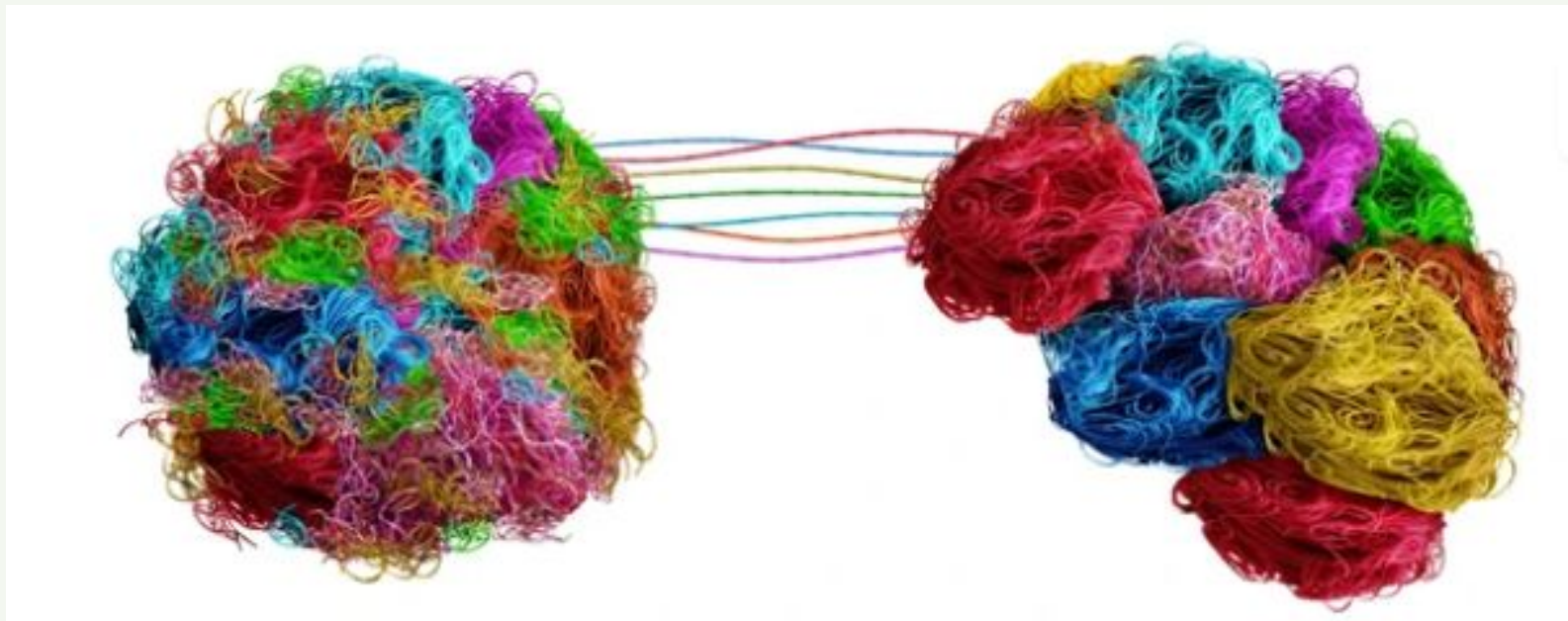




# Hello people !





# Placement preparation for PBC

**RMK ENGINEERING COLLEGE**

DEEPAK  
CSBS

LAVANYAGAYATHRI  
CSBS

Product Based Company	Service Based Company
These are the companies that have their own products to sell.	These companies may or may not have their products, but their primary business is service.
They demand moderate-high level tech knowledge	They demand moderate level tech knowledge
Selective Recruiter	Bulk Recruiter
High Salary	Comparatively less Salary
Relatively High job security	Relatively Low job security
Eg: Zoho, Triad, Mr.Cooper, Core companies	Eg: TCS, Accenture, Infosys..etc

# Placement Process Overview

## Screening :

- Based on company's own requirements

## Online Coding Test :

- Sometimes includes aptitude and logical reasoning sections.
- Typically 2-3 coding problems focusing on problem solving skills(e.g., Arrays, Strings, Trees).

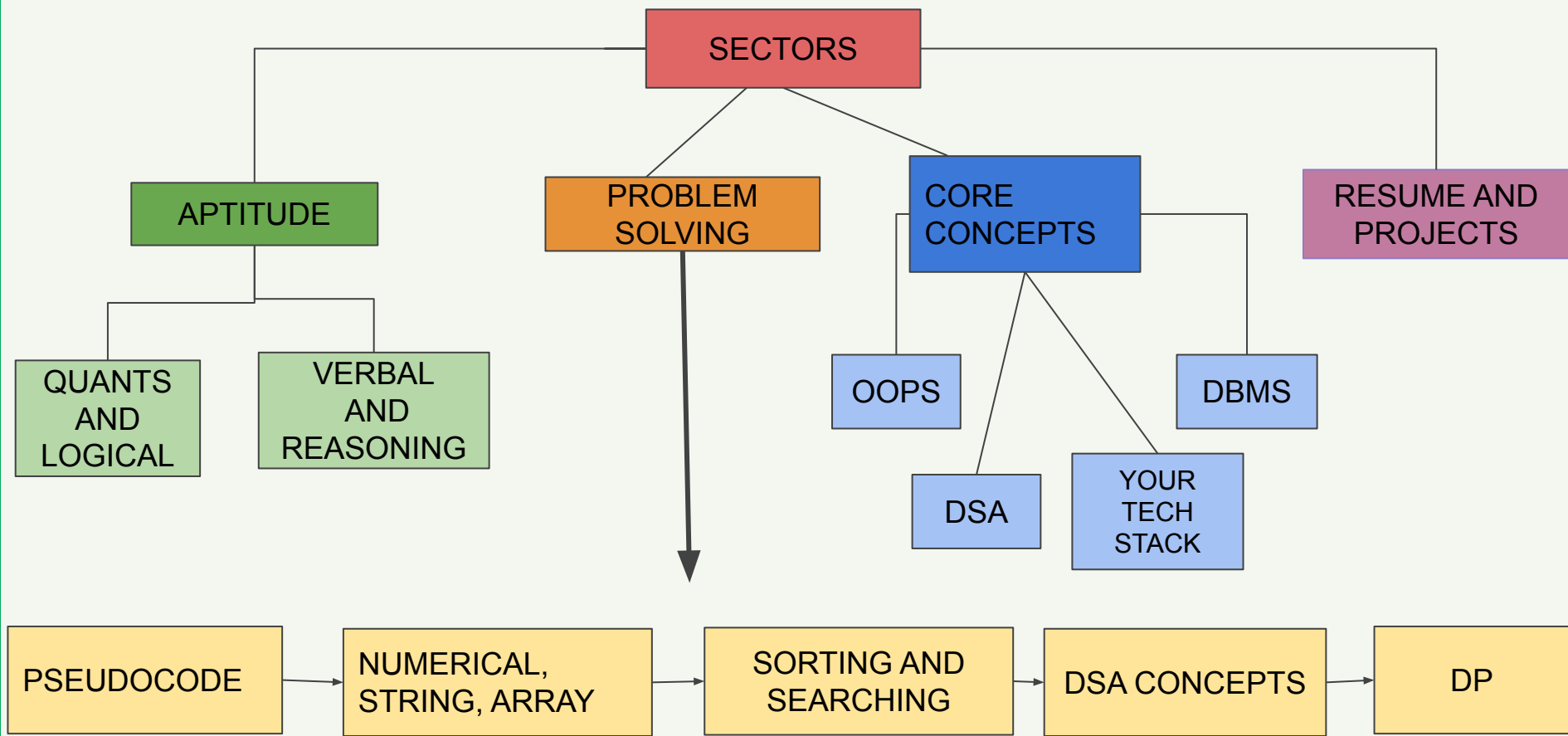
## Technical Interviews (1-2 rounds) :

- Hands on problem solving and DSA related questions
- Discuss your projects and work on real-world problem-solving.
- Questions about tech stack and core concepts

## HR Interview :

- Tests your communication skills, leadership qualities, and cultural fit.
- Behavior oriented questions





# Personal – Experiences

1. At which level we were 1 year ago ?
2. When did we get serious ?
3. How did we practice ?
4. Campus placement rejections and mindset.
5. Day we got placed.

# APTITUDE



## QUANTS

- 1) PROFIT LOSS
- 2) SI / CI
- 3) TSD
- 4) TRAIN
- 5) PROBABILITY
- 6) P & C
- 7) RATIO AND PROPORTION

## LOGICAL

1. CODING  
DECODING
2. SEQUENCE
3. ANALOGY
4. MISSING  
NUMBERS

## REASONING

1. CALENDAR
2. BLOOD  
RELATION
3. SERIES
4. RANKING
5. SEATING  
ARRANGEMENT

## VERBAL

# Most important

## The ones you can simply think and answer:

Patterns

**Seating Arrangement**

**Blood relation**

**Directions**

Data Interpretation

Logical Detection

## The ones you need to see only once/ twice:

Average

**Ages**

Volume & Surface

Area

**Calendars**

**Numbers ( LCM, HCF , unit digit, divisibility)**



# The ones you need more practice and time

Mock test

Time , Speed, Distance:

Height and distance

Problems on Train

Problems on Boat and Streams

Work - Day

Simple Interest , Compound Interest

Profit & Loss

Discounts & Marked Price

Permutation & Combination

Probability

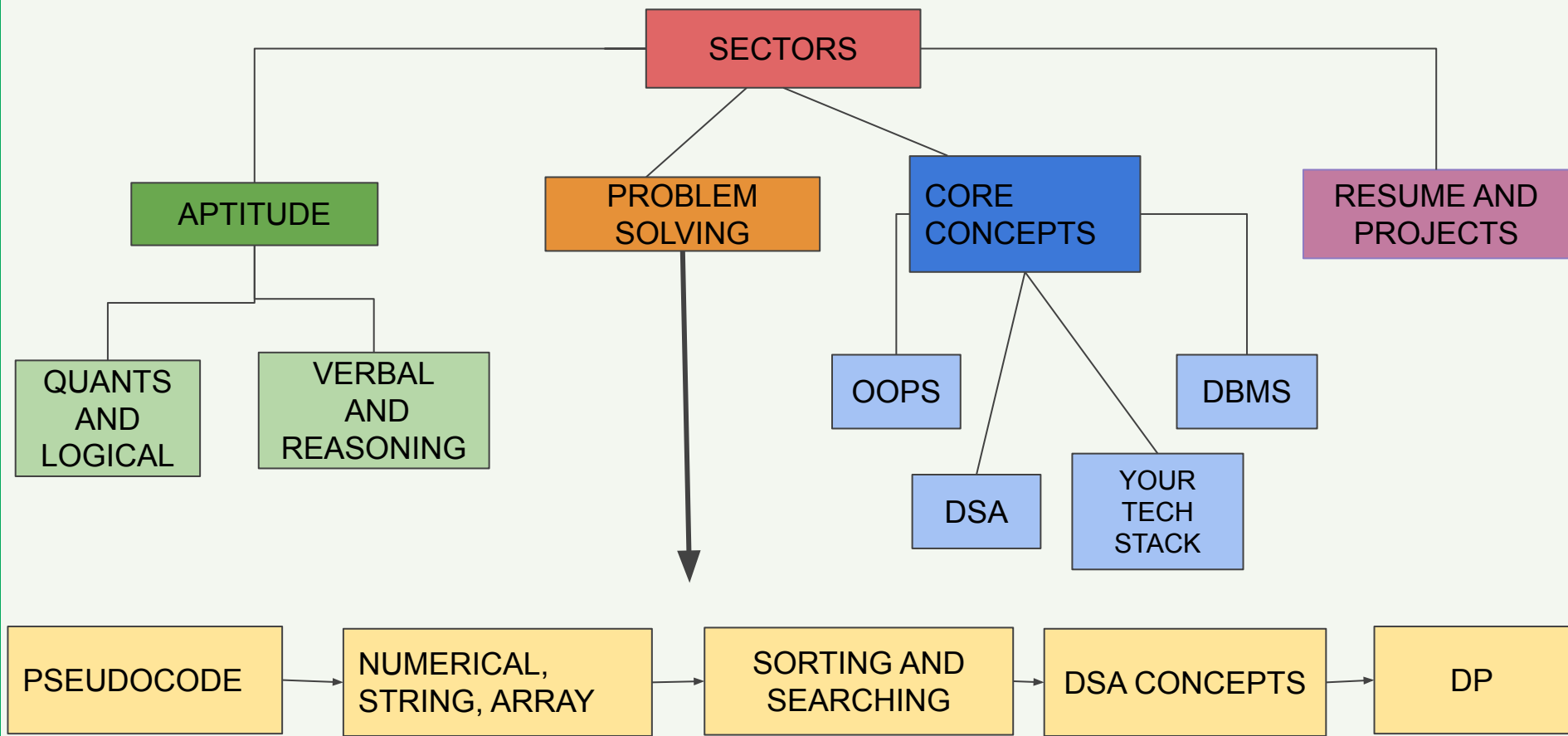
Ratio and Proportion

Pipes & Cistern

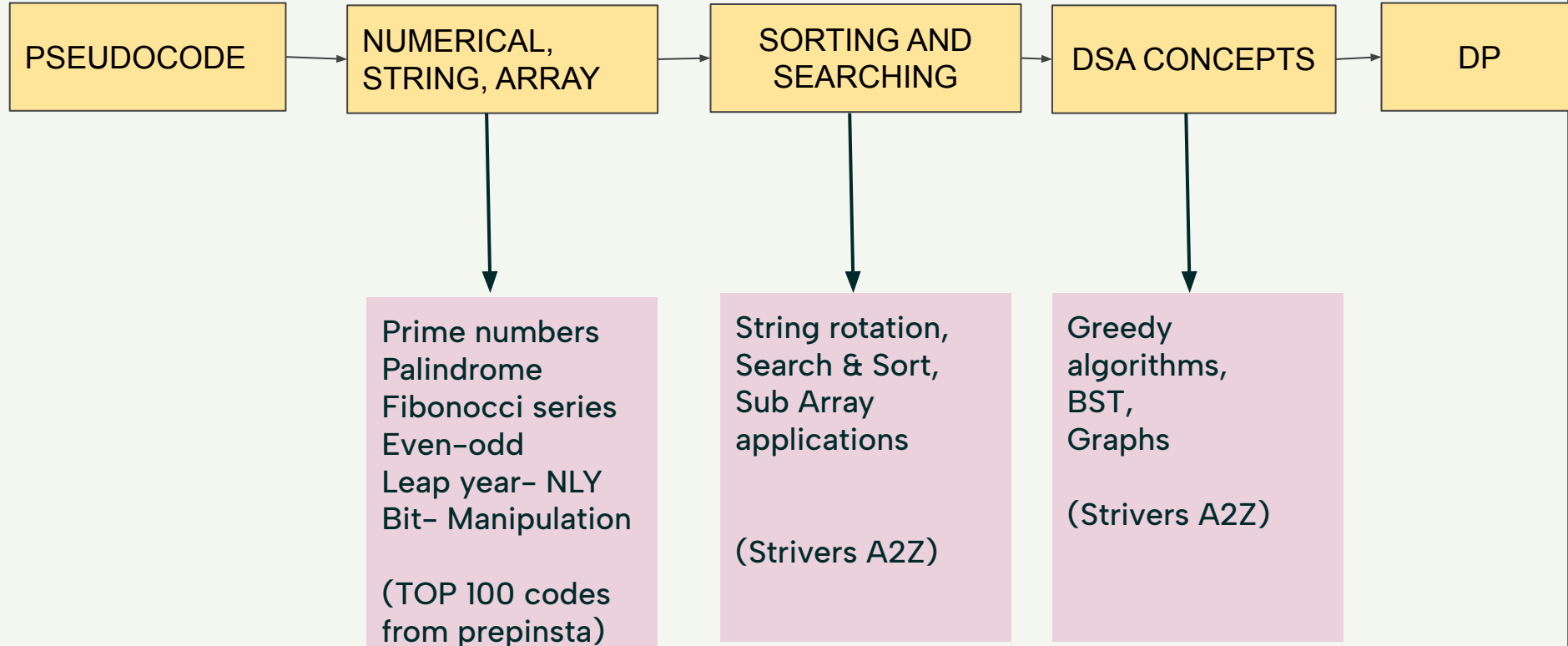
Mixtures

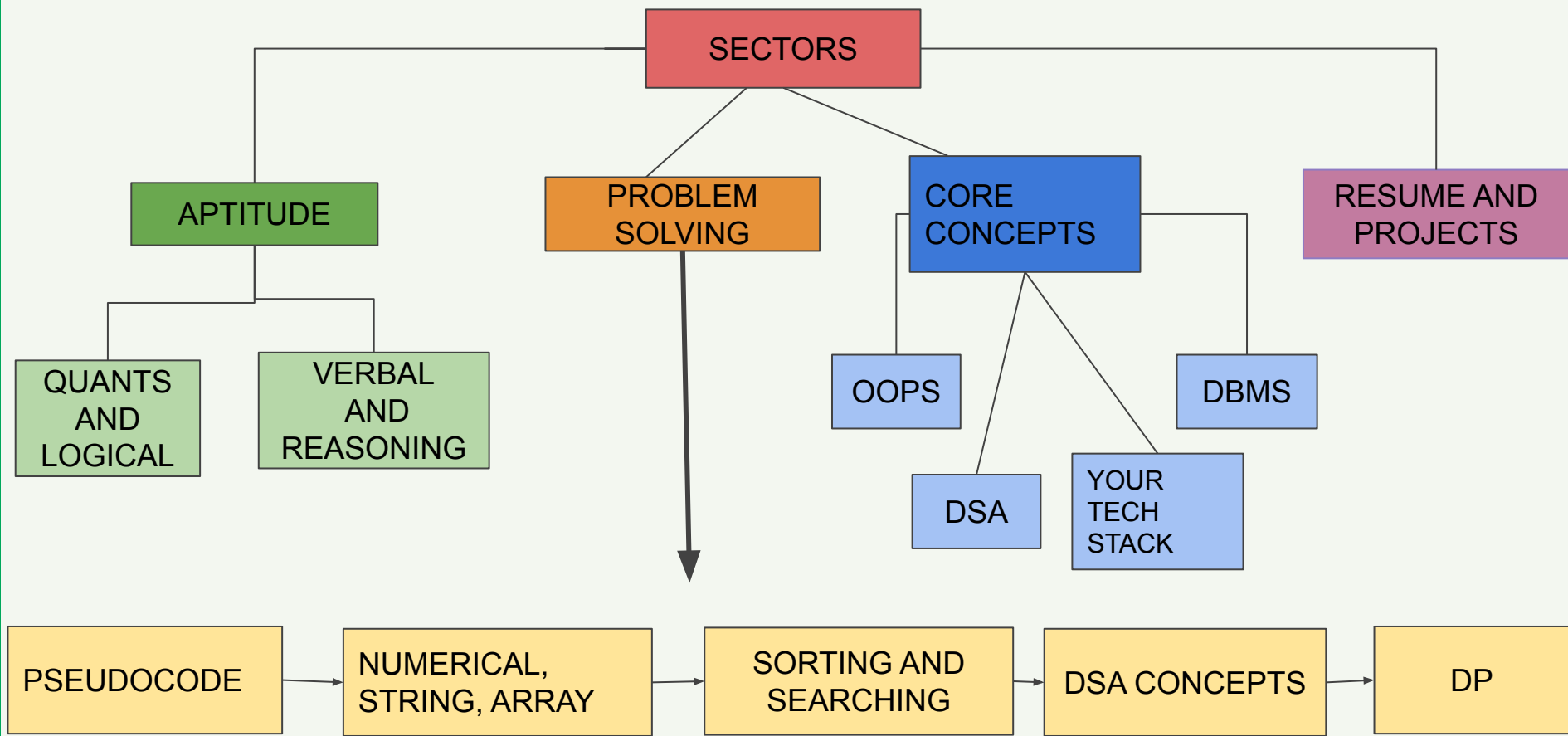
# Fine, but how to study ?

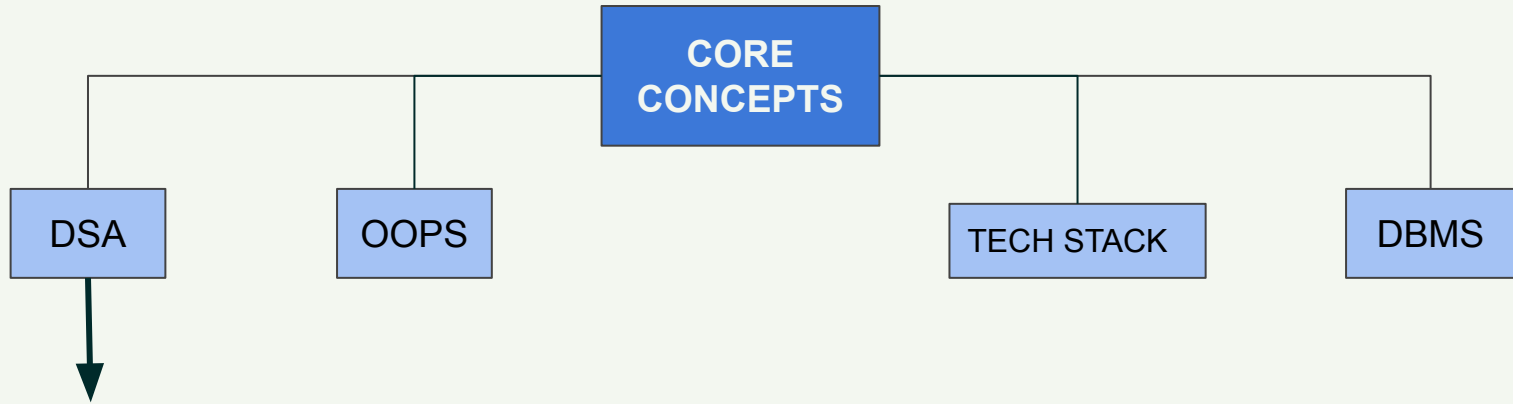
- 1) Nothing beats your own Cheat Sheet
- 2) Prefer going through Models than Formulae
- 3) Think logically, you always don't need Formulae
- 4) Use Shortcuts (only if you are sure)



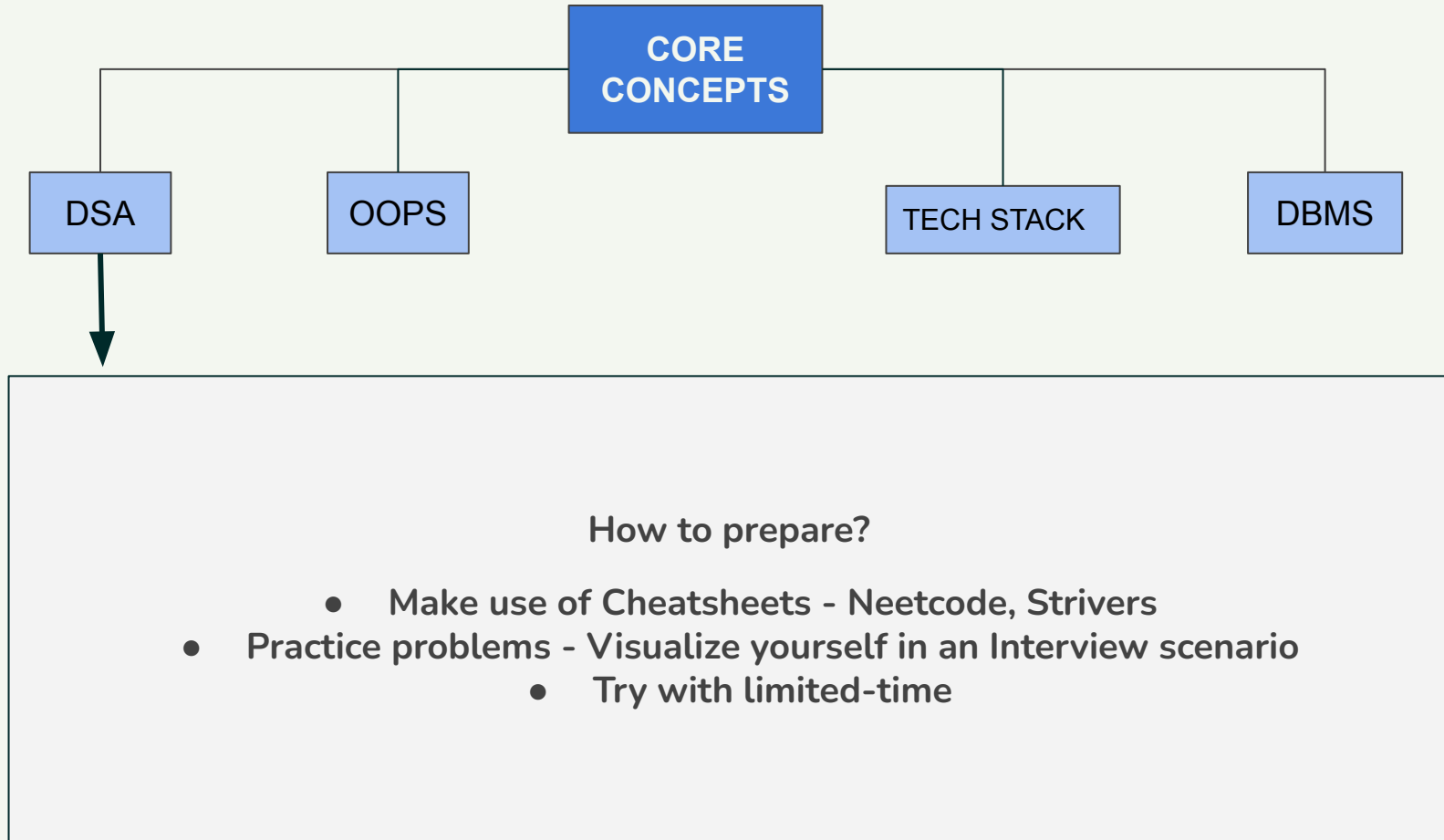
# PROBLEM SOLVING







- Will be tested in various data structures such as graph, DP, Trees, etc
- Depends on the firm
- Will be asked to solve in TECH interviews too (focus more on how you approach the problem)
- Familiarise yourself with common algorithms
- Would push you to come up with optimized solution



[Description](#) | [Editorial](#) | [Solutions](#) | [Submissions](#)[Topics](#)[Companies](#)[Hint 1](#)

Bob travels along a fixed path (from node "bob" to node 0).

[Hint 2](#)[Hint 3](#)[Similar Questions](#)[Discussion \(77\)](#)

Type comment here... (Markdown supported)

[Choose a type](#)[Code](#) [Image](#) [Gif](#)

Preview

Comment

### Discussion Rules

1. Please don't post **any solutions** in this discussion.
2. The problem discussion is for asking questions about the problem or for sharing tips - anything except for solutions.
3. If you'd like to share your solution for feedback and ideas, please head to the solutions tab and post it there.

Sort by: Best

[Code](#)C++ [Auto](#)

1 DONT LOOK HERE!

Saved

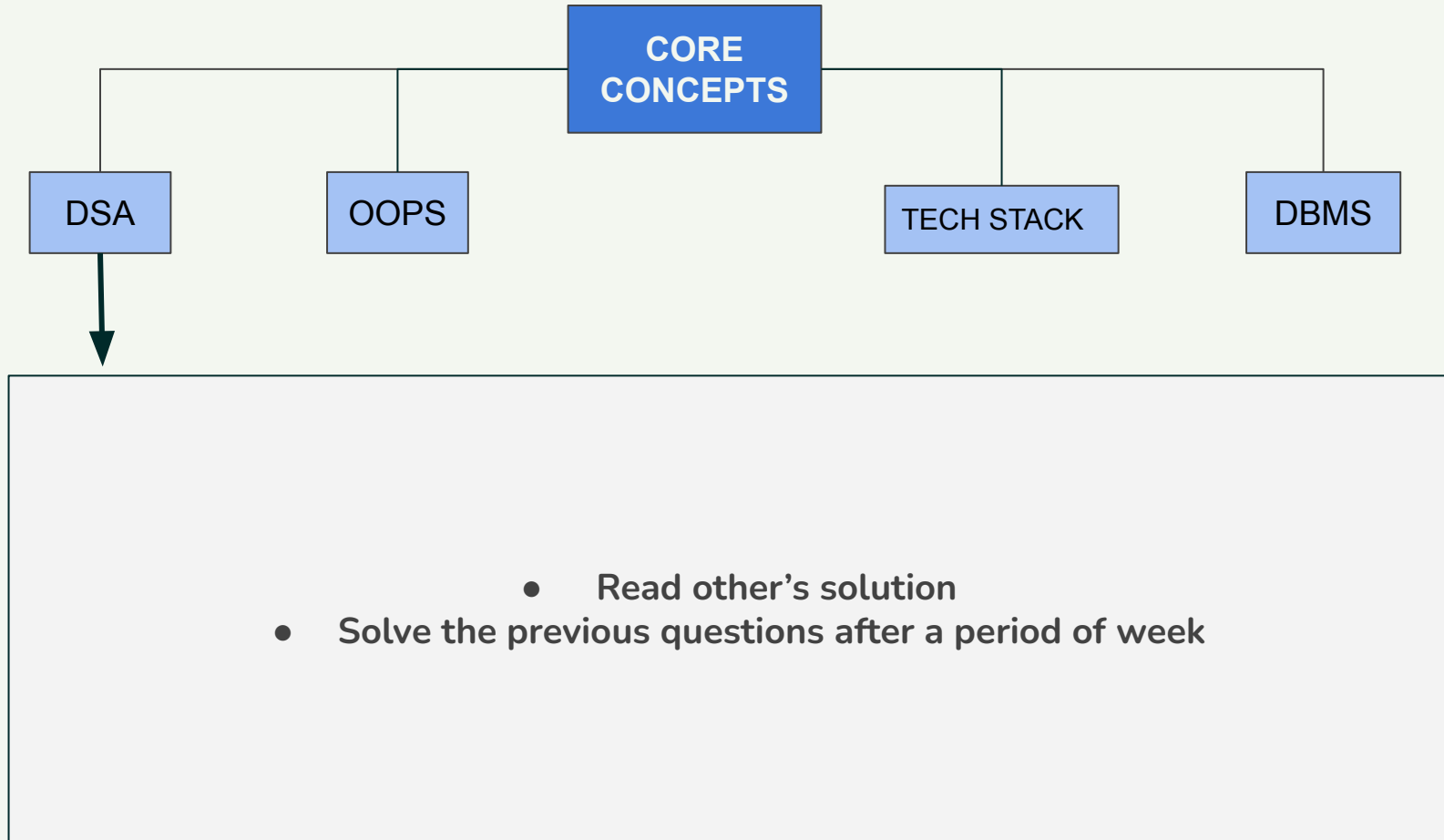
[Testcase](#) | [Test Result](#)

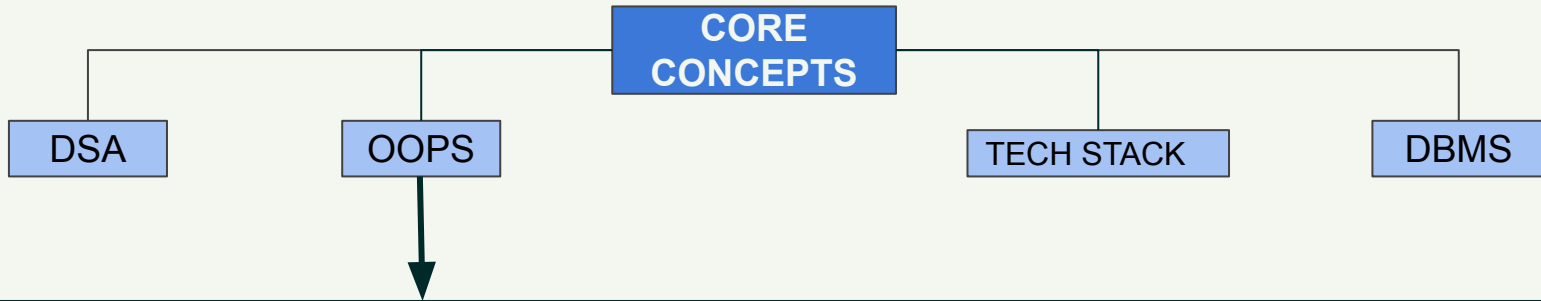
Case 1

Case 2

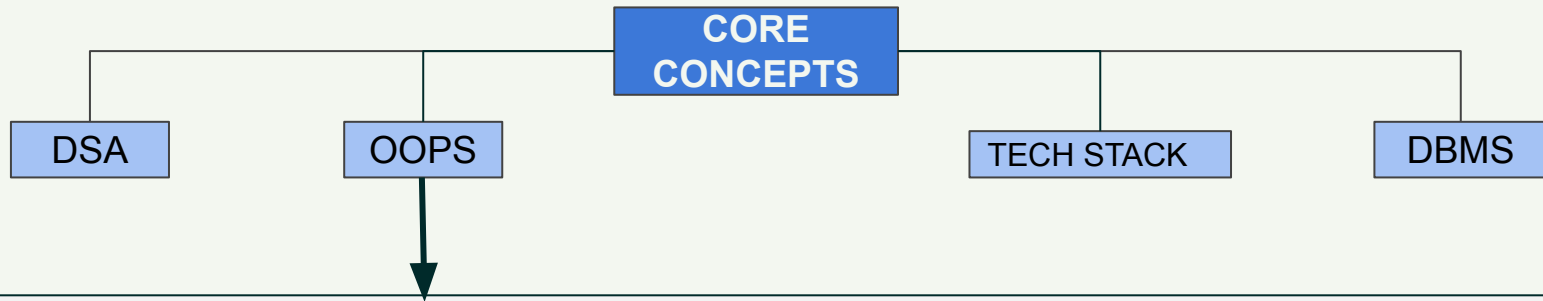
+





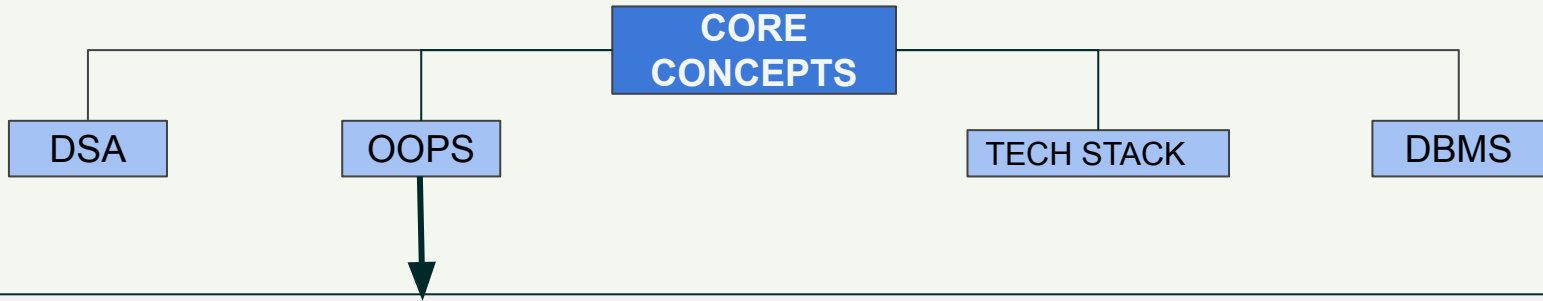


- Will ask us to create an application based on OOP principles
- Problems can be any real time scenario
- Can be asked in complex(Advanced) programming rounds
- CRUD operations are expected to be implemented
- (console based application)



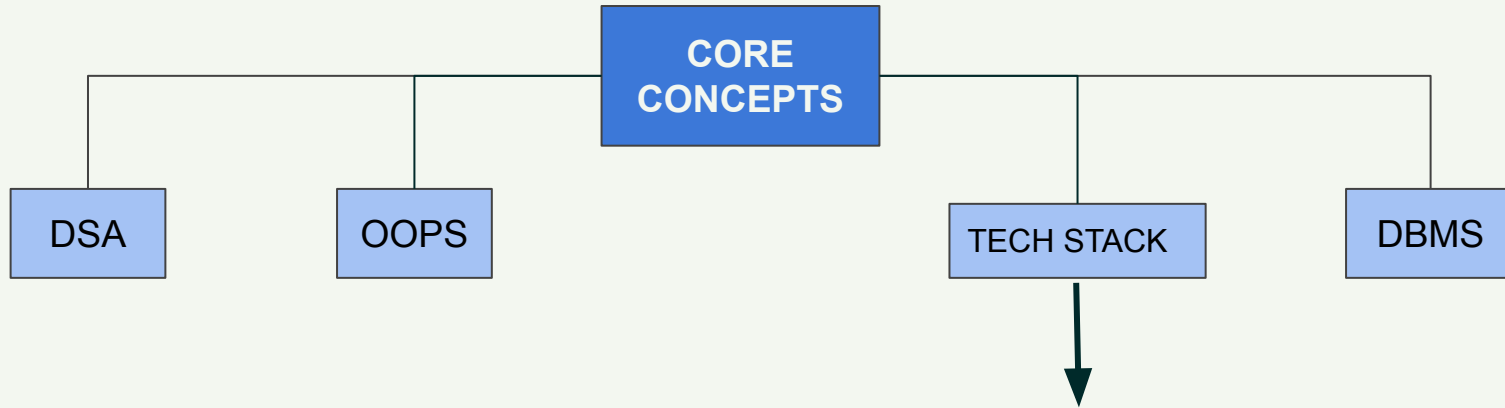
- **EXAMPLE (ZOH0)**

Design a Call taxi booking application -There are n number of taxi's. For simplicity, assume 4. But it should work for any number of taxi's. -The are 6 points(A,B,C,D,E,F) -All the points are in a straight line, and each point is 15kms away from the adjacent points. -It takes 60 mins to travel from one point to another -Each taxi charges Rs.100 minimum for the first 5 kilometers and Rs.10 for the subsequent kilometers. -For simplicity, time can be entered as absolute time. Eg: 9hrs, 15hrs etc. -All taxi's are initially stationed at A. -When a customer books a Taxi, a free taxi at that point is allocated -If no free taxi is available at that point, a free taxi at the nearest point is allocated. -If two taxi's are free at the same point, one with lower earning is allocated -Note that the taxi only charges the customer from the pickup point to the drop point. Not the distance it travels from an adjacent point to pickup the customer. -If no taxi is free at that time, booking is rejected



- **EXAMPLE (ZOHO)**

How can you build a **console-based social media app** where users can **sign up, log in, send friend requests, follow others**? How do you implement a **mutual friends feature** that finds common friends between two users?



WEB DEVELOPER / DATA ANALYTICS / FRONT END / BACKEND / SYSTEM DESIGN / MACHINE LEARNING

- Know about the tech flow
- Know about your language
- Learn about it's library function
- Be specific NOT general

# PROJECT:



Take enough  
time and  
create one  
solid project



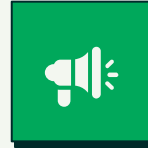
Choose  
project related  
to your tech  
stack



It must  
provide  
solution in real  
time



Know about  
your  
contribution



Group  
Projects are  
welcome

# RESUME:

## Lavanya Gayathri .V

Sophomore

### My Contact

✉ gayathrilavanya15@gmail.com

☎ 9791098433

📍 Chennai, TamilNadu

🌐 [LinkedIn Profile](#)

### Hard Skill

#### • Programming Languages

C, Java  
Basics of Python, SQL  
Basic tools in SPSS

#### • Currently Learning

Data Analytics  
R, HTML and CSS

### Soft Skill

- Team management
- Leadership
- Communication
- Presentation Skills

### Education Background

#### • R.M.K Engineering College

B.Tech., Computer Science and Business Systems  
C.G : 8.58/10  
Expected to complete in 2025

#### • Valammal Matriculation Hr. Sec. School

12th Grade, Computer Science Stream  
Percentage: 84.07  
Completed in 2021

### Paper publication

#### • V-CMT Conference

Paper published and presented on title -  
**Adani Vs Hindenburg ,A factual analysis**  
FEB 2023

- Currently on Marketing research paper based on topic : **Aggressive vs discrete marketing - What works best for Gen Z**  
APR 2023

### About Me

A passionate individual and a consistent learner of business and data analytics with strong fundamentals of programming languages and an effective communicator and presenter with good team management and adaptability.  
With an obsessive passion for finance and marketing.

### Achievements

#### • Business plan competition - Finalist

A business plan to create a website that helps the public to know about schools and colleges in addition to career advice based on their requirements.  
MAY 2022

#### • Mathematics club - Runner up

NOV -JUNE 2022

#### • Kalam foundation - Intern

Three months experience in content development, research and team management.  
OCT-DEC 2022

#### • NSIC - Intern

A week internship and hands-on experience on android app development.

#### • IIC Innovation Competition - Participation

JAN 2023

Inter-college Innovation Competition 2023 conducted by IIC  
FEB 2023

### Courses undertaken

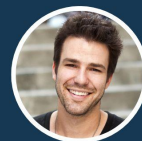
Learned various certified courses on data analysis, machine learning and programming languages, as well as multiple soft skills from sources such as Infosys, Edx and Coursera.

#### • Certifications from NPTEL

Enhancing soft skills and personality - ELITE certification  
A/19/ 2022

Programming, Data structures and Algorithms using Python  
- ELITE certification  
SEP 2022

APRIL 2023



### CONTACT

☎ +123-456-7890

✉ [hello@reallygreatsite.com](mailto:hello@reallygreatsite.com)

📍 123 Anywhere St., Any City

🌐 [www.reallygreatsite.com](http://www.reallygreatsite.com)

### EDUCATION

2029 - 2030

#### WARDIERE UNIVERSITY

- Master of Business Management

2025 - 2029

#### WARDIERE UNIVERSITY

- Bachelor of Business
- GPA: 3.8 / 4.0

### SKILLS

- Project Management
- Public Relations
- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

### LANGUAGES

- English (Fluent)
- French (Fluent)
- German (Basics)
- Spanish (Intermediate)

## RICHARD SANCHEZ

MARKETING MANAGER

### PROFILE

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam quis nostrud exercitation. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam quis nostrud exercitation. Ut enim ad minim veniam quis nostrud exercitation.

### WORK EXPERIENCE

- **Borcelle Studio** 2030 - PRESENT  
Marketing Manager & Specialist
  - Develop and execute comprehensive marketing strategies and campaigns that align with the company's goals and objectives.
  - Lead, mentor, and manage a high-performing marketing team, fostering a collaborative and results-driven work environment.
  - Monitor brand consistency across marketing channels and materials.
- **Fauget Studio** 2025 - 2029  
Marketing Manager & Specialist
  - Create and manage the marketing budget, ensuring efficient allocation of resources and optimizing ROI.
  - Oversee market research to identify emerging trends, customer needs, and competitor strategies.
  - Monitor brand consistency across marketing channels and materials.
- **Studio Shodwe** 2024 - 2025  
Marketing Manager & Specialist
  - Develop and maintain strong relationships with partners, agencies, and vendors to support marketing initiatives.
  - Monitor and maintain brand consistency across all marketing channels and materials.

### REFERENCE

Estelle Darcy  
Wardiere Inc. / CTO  
Phone: 123-456-7890  
Email: [hello@reallygreatsite.com](mailto:hello@reallygreatsite.com)

Harper Richard  
Wardiere Inc. / CEO  
Phone: 123-456-7890  
Email: [hello@reallygreatsite.com](mailto:hello@reallygreatsite.com)

# RESUME: <https://www.overleaf.com/>



## Kausalya R.S

Bachelor of Technology  
Computer Science and Business Systems  
RMK Engineering College

+91-8438221992  
k22280903@gmail.com  
linkedin-Kausalya  
github.com/R.S

### EDUCATION

Degree/Certificate	Institute/Board	Marks	Year
B.Tech., CSBS	R.M.K Engineering College	[8.16 (C.G.P.A.)]	[July 2025]
Senior Secondary	[Velammal Matric Higher Secondary School/State Board]	[89 Percentage]	[May 2021]
Secondary	[Bhaktavatsalam Vidyashram/CBSE]	[82 Percentage]	[May 2019]

### INTERNSHIP EXPERIENCE

- **Navitas Private Limited**  
*Software Engineering Intern*  
January 2025  
Chennai, India  
• Gained hands-on experience with DBMS and RDBMS fundamentals, including database design, normalization, and writing SQL commands.
- Developed and interpreted ER diagrams to model and optimize database structures.

### PROJECTS

- **HR Analytics in Atlix**  
*Tools: Power BI*  
• Created a dashboard to visualize employee attendance from April to June 2022, showcasing sick leave, work-from-home, and presence percentages. Provided daily trends and overall attendance insights.
- **Hospital Dashboard**  
*Tools: Power BI*  
• Developed an interactive Power BI dashboard to analyze hospital inpatient and outpatient data, focusing on average and median wait times. Transformed and combined multiple Excel files, implementing data cleaning and visualization techniques to enhance operational insights.
- **Hotel Booking Data Analysis and Visualization**  
*Tools: Jupyter Notebook*  
• Conducted exploratory data analysis on hotel booking data to identify factors contributing to low revenue and reduced bookings. Utilized NumPy and Pandas for data management, and Seaborn and Matplotlib for visualizing insights and trends. Provided actionable recommendations based on the analysis.
- **Expense Tracker**  
*Tools: Visual Studio Code*  
• Developed a finance management dashboard with React, Express, and MongoDB Atlas, featuring interactive graphs for spending insights. Enhanced API functionality and customized UI to reinforce full-stack skills in RESTful APIs and responsive design.

### SKILLS

- **Programming Languages:** Java, C Sharp (Basic), HTML, CSS, Javascript, C, XML, MySQL
- **Tools:** Visual Studio Code, Argo UML, Unity 3D Engine, Project Libre, Android Studio, Power BI, MySQL, Workbench

### CERTIFICATIONS

- **Infosys Springboard**, MySQL - SQL and Database Testing

### ACHIEVEMENTS

- Tech Club(College) - Second Prize
- Top 50 Ideas - Adimurai Using AR-VR Academy - Start Up Cafe(Anna University)
- Spell Bee Competition (Cleared 3 levels) - (School Topper)
- Second Prize- App Development - Nylkaa Clone

## Lavanyagayathri V

+91 9791096433 - gayathrilavanya15@gmail.com - lava21126.cb@rmkce.ac.in - LinkedIn - Github



### EDUCATION

**RMK Engineering College**  
*B.tech - Computer Science and Business Systems (Honors in Business Analytics)*  
**Velammal Matriculation**  
*Senior Secondary*  
**Velammal Matriculation**  
*High school*

CGPA: 8.53  
May 2025  
94.1%  
2021  
95.2%  
2019

### TECHNICAL SKILLS

**Programming Languages:** C, SQL, Java  
**Libraries and Tools:** Power BI, Excel, MySQL, Pandas, Numpy, Argo UML

### INTERNSHIP EXPERIENCE

- **GrowUp- Preplnsta**  
*Data Analyst Intern*  
Jun 2024 - Aug 2024  
• Executing weekly mini-projects involving data cleaning and analysis using Excel, SQL for database querying, Python for statistical and exploratory analysis and scripting, and Power BI for dynamic data visualization
- Applying web scraping techniques for real-time data acquisition and analysis.
- **IBM- AICTE**  
*Data Analyst Intern*  
Jun 2023 - July 2023  
• Completed five IBM-certified learning courses in data fundamentals and applied data science using Python
- Conducted data life cycle management for a superstore analysis, communicating insights through storytelling
- Developed a Random Forest model that achieved an accuracy score of 95.08% in predicting maximum store profit

### RESEARCH AND PUBLICATIONS

- **A Fuzzy Logic and NLP Approach to Emotion-Driven Response Generation for Voice Interaction**, IEEE  
Drafted a technical paper addressing the lack of emotional understanding in traditional voice interaction systems with innovative solution integrating NLP and Fuzzy logic that aims to enhance voice interaction systems by recognizing and responding to emotional nuances in real-time user communication  
Nov 2023 [Read it!](#)
- **Aggressive vs discrete marketing - What works best for Gen Z**, REVA Conference, Authored a research paper that employed data analytics to investigate the efficacy of aggressive versus discrete advertising tactics on Gen Z, encompassing data collection, data cleaning, comprehensive analysis, and interpretation  
Sep 2023 [Read it!](#)
- **Adani Vs Hindenburg-A factual analysis**, V-CMT Conference, Authored and published a research paper analyzing the Indian stock market during the Adani crisis at VSIT Conference , highlighting the benefits for retail investors and suggesting potential market movements in the near future.  
Feb 2023 [Read it!](#)

### PROJECTS

- **Employee presence insights**, Developed an engaging **Power BI** dashboard, starting with understanding the problem followed by thorough data gathering, transformation, and metric creation. Provided HR stakeholders with clear insights into office presence, remote work, and leave patterns to help optimize workforce strategies
- **Preference of Gen Z over advertisements**, Implemented an analysis to find Gen Z's favored marketing strategies, starting with the collection of 216 responses followed by data cleaning, transformation, and visualization through **Excel** and **Python** to arrive at insights that results, GenZ prefer discrete over aggressive marketing
- **Amazon Web Scrapping** , Developed a Python-based web scraper to extract and compile product names, prices, and star ratings from HTML pages simulating Amazon listings. Utilized **BeautifulSoup** for HTML parsing, pandas for data manipulation, and openpyxl for exporting data to Excel as a comprehensive dataset for future analysis

### CERTIFICATIONS

- **IBM SkillsBuild** Certification on Data Analytics, Big Data
- **Infosys SpringBoard** Artificial Intelligence Primer Certification (2023)

### EXTRACURRICULAR ACTIVITIES

- **Runner-up** in paper presentation competition at national level tech-fest at SSN College of Engineering (2023)
- Earned **second position** in the game of Carrom at the RMK Engineering College's intramural tournament (2023)
- Participated in various competitions and events including Ideathon, Tata Crucible Campus quiz (2023,2024)



# Extras

- Github Profile will act as another resume
- Maintain a personal website (portfolio)

# If you ask us what to do now?

**In this sem,** focus on project, resume-building, improving gpa and programming

**From Semester Holidays,** Start with aptitude and technical subjects



## PROGRAMMING



### Cheat Sheets

STRIVER, APNA  
COLLEGE, CURIOUS  
FREAKS, BABBAR, Prep  
Insta Top - 100

## APTITUDE



### Hands On Practice

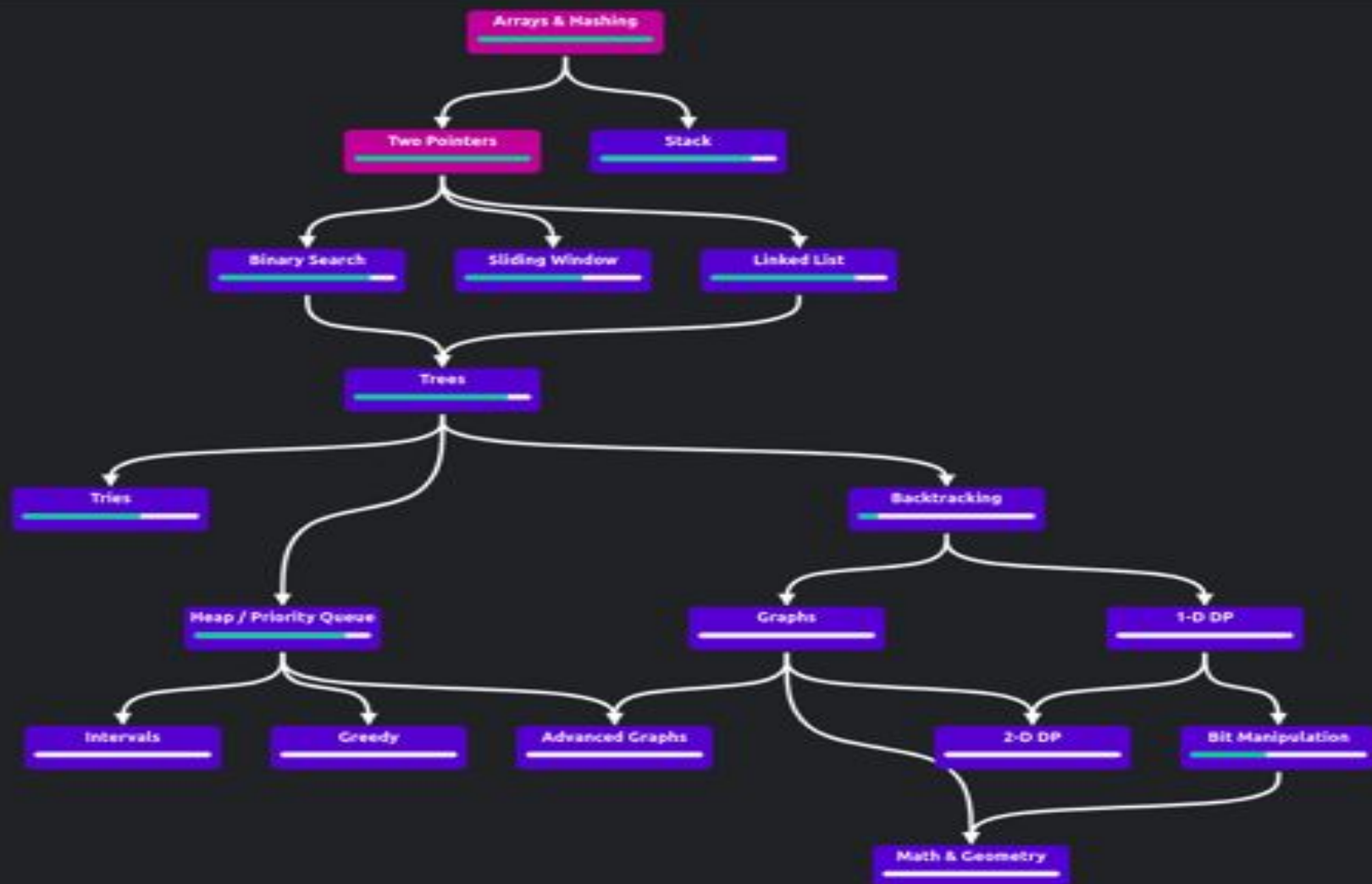
PREPINSTA,  
INDIABIX..(any  
site that has good  
content)

## INTERVIEW



### Company Specific Practices

Blogs, Vlogs  
Sources: GFG,  
YOUTUBE



# Personal – Experiences

1. Campus placement rejections and mindset.
2. Day we got placed.

**Questions ?**

**Thank You !**