

# On-Campus Placements

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## 1. Aptitude

Quantitative Ability	<ul style="list-style-type: none"><li>• Number System</li><li>• LCM and HCF</li><li>• Partnerships</li><li>• Ratio &amp; Proportions</li><li>• Percentages</li><li>• Simple Interest &amp; Compound Interest</li><li>• Profit and Loss</li><li>• Mixture and Alligations</li><li>• Time and Work</li><li>• Time, Speed and Distance</li><li>• Averages</li><li>• Permutations and Combinations (<b>BASICS</b>)</li><li>• Probability (<b>BASICS</b>)</li><li>• Logarithms (<b>BASICS</b>)</li></ul>
Logical Reasoning	<ul style="list-style-type: none"><li>• Data Interpretation</li><li>• Data Sufficiency</li><li>• Directional Sense</li><li>• Blood Relations</li><li>• Number Series</li><li>• Pattern Recognition - Code, Number, Alphabets</li><li>• Coding and Decoding</li></ul>
Verbal Reasoning/English	<ul style="list-style-type: none"><li>• Synonyms, Antonyms</li><li>• Error Spotting</li><li>• Reading Comprehension</li><li>• Sentence Completion</li><li>• Sentence Improvement</li></ul>

### Resources:

1. [Indiabix](#) (Free - Best for Aptitude)
2. [Javatpoint](#) (Free)
3. [Freshers Now](#) (Free)
4. [Ambition Box](#) (Free)

## 2. Data Structures & Algorithms

### - Sorting & Searching (All types)

Arrays	<ul style="list-style-type: none"> <li>• Pairs</li> <li>• Triplets</li> <li>• Mountain</li> <li>• Longest Band</li> <li>• Rains</li> <li>• Subarray Sort</li> <li>• Minimum Swaps</li> <li>• Maximum Subarray Sum</li> <li>• Minimum Difference</li> </ul>
Strings	<ul style="list-style-type: none"> <li>• String Key Sort</li> <li>• Check Subsets</li> <li>• Sort Subsequences</li> </ul>
Sliding Window Problems	<ul style="list-style-type: none"> <li>• Two Pointer</li> <li>• Unique Substring (Hashing)</li> <li>• String Window</li> <li>• Count Subarray min/max/target sum</li> </ul>
Linked Lists	<ul style="list-style-type: none"> <li>• K-Reverse</li> <li>• Merge 2 sorted Linked lists</li> <li>• Middle Element</li> <li>• Kth Last</li> <li>• Detect Cycle</li> </ul>
Dynamic Programming	<ul style="list-style-type: none"> <li>• N-K Ladders</li> <li>• Longest Common Subsequence (LCS)</li> <li>• Knapsack Problem</li> </ul>
Hashing	<ul style="list-style-type: none"> <li>• Anagrams</li> <li>• Longest k-sum subarray</li> </ul>
Stacks & Queues	<ul style="list-style-type: none"> <li>• Balanced/Redundant Parentheses</li> <li>• Simplify Path</li> </ul>

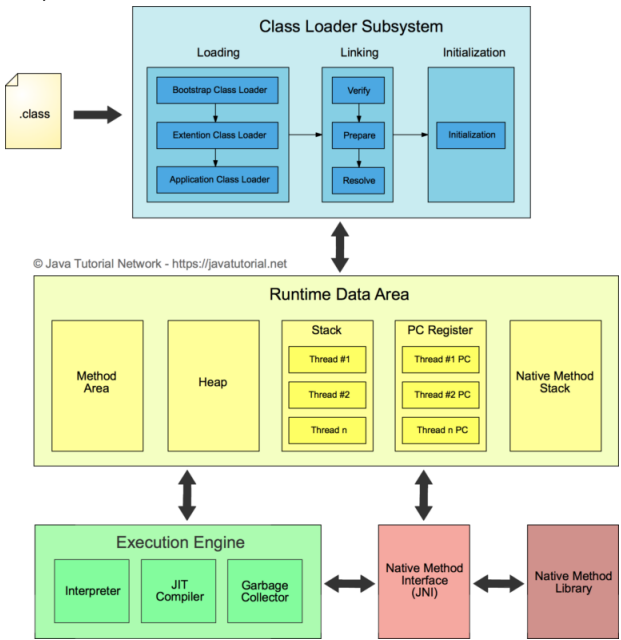
**Note: All Data Structures are not included above, not all types of problems are mentioned. Above table is just for reference.**

#### Data Structures wise Problems:


1. Hackerank - <https://www.hackerrank.com/interview/interview-preparation-kit>
2. Leetcode - <https://leetcode.com/explore/featured/card/top-interview-questions-easy/>
3. GFG - <https://practice.geeksforgeeks.org/explore/>

### 3. Other Subjects

Resources: GFG, Javatpoint | **Topics from Interview Experiences\*\***

Java	<ul style="list-style-type: none"> <li>• Data Types</li> <li>• <i>Java Architecture**</i> - Compiler, Interpreter, Platform Independent, <b>JVM</b>, JRE, Class Loader etc.</li> </ul>  <p>© Java Tutorial Network - <a href="https://javatutorial.net">https://javatutorial.net</a></p> <ul style="list-style-type: none"> <li>• <i>Objects, Heap Storage, Garbage Collection**</i></li> <li>• <i>OOPS****</i> - Abstraction, Encapsulation, Inheritance, Polymorphism with examples, Classes, Constructors, <b>Method Overloading</b>, <b>Method Overriding</b>, <b>Dynamic Method Dispatch</b>, Data Hiding, Abstract Class, Abstract Method, <b>Interfaces</b>, Inner Class, Anonymous Class, <b>Access Modifiers</b>, Wrapper Classes</li> <li>• How Multiple Inheritance (CPP &amp; Others) can be solved by Interfaces in Java. [IS A and HAS A relationship]</li> <li>• Exception Handling - Throwable, User defined exception, finally</li> <li>• <b>Multithreading</b> - Thread, Runnable</li> <li>• <b>String</b> - <i>StringBuffer</i> vs <i>Stringbuilder**</i></li> <li>• Why are strings immutable?*</li> <li>• <b>Collections**</b></li> <li>• Serialisation (Brief)</li> </ul>
DBMS	<ul style="list-style-type: none"> <li>• SQL **, NoSQL, MongoDB vs SQL</li> <li>• Functional Dependencies, Normalization</li> <li>• ACID **, Concurrency Control (Brief)</li> <li>• Indexing, B and B+ Trees</li> </ul>
OS	<ul style="list-style-type: none"> <li>• Cache, LRU**</li> </ul>

## 4. Resume



# Aditya Kotkar

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I'm a hard working and focused individual who's passion is in exploring different technologies & giving the best with my knowledge to complete any tasks and make a difference in your company.

## SKILLS

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C C++ HTML CSS Figma

Scrapy Python-Flask Git

Selenium MongoDB SQL

Team Player Quick Learner

Meeting Deadlines Patient

## EXPERIENCE

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### Technical Officer

ISTE-VESIT

SEPTEMBER 2019 - PRESENT

- Accountable for conducting workshops, handling technical and non-technical events, developing applications.
- 221B Baker Street** |
- Developed and managed a *quiz based live event* for 200 users.
- Conducted workshop on **"Modern Web Scraping"** for 50+ students and also involved in 9 other similar workshops and 2 technical events.

### Freelancer

MARCH 2021 - PRESENT

- Assisted students from foreign universities in 35+ projects involving interactions seeking requirements, writing reports, resolving errors and presentation of projects.
- Currently working on development of **Cryptocurrency Portfolio Management** app for mock trading and analyzing trends.

### Technical Intern

Cloud Counselage Pvt. Ltd., Mumbai

MARCH 2020 - JULY 2020

- Contributed on a project aiming to categorize events with domains and recommend to employees.
- Generated a dataset of **1,00,000+ records** by scraping over 10+ websites and increasing the accuracy of the model.

## EDUCATION

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**B.E | Information Technology**  
VESIT, Mumbai  
8.57 CGPA [SEM-VI]  
2018 - 2022

**HSC - CS | MSBSHSE [2018]**  
K.P.C Jr. College, Kharghar  
78.47%

**SSC | CBSE [2016]**  
Apeejay School, Kharghar  
10 CGPA

### Achievements

- Winner - VESIT Hacks'19**  
48hrs Hackathon by VESIT-Ecell.
- Winner - Code Slam'19**  
12 hrs Hackathon by Aptech
- Elected as **Sports Incharge** in second year.

## PROJECTS

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### My\_Guard

Python-Flask, AWS, MongoDB Atlas

Security Records Management app with facial recognition deployed on Raspberry Pi.

### Amplify

Python-Tkinter GUI, Firebase

**Music streaming Desktop Application (Spotify Clone)**, using Python-Tkinter GUI.

### TechVents

PHP, Web Scraping

A **Content Aggregation and Blogging** website for tech related events, news & blogs.

### Stega

Python-Flask

Single Platform for encoding & decoding all types of media files using **Steganography**.

## Interests

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Football Personal Finance

## Languages

English Hindi Marathi

**Note: Keep your resume handy/editable (eg. Doc format) for different roles/companies.**

## 5. HR/Behavioral Questions

- Introduction
- Where do you see yourself in 5 years?
- Strengths and Weaknesses
- Behavioral questions based on experiences.

**Note: These are all frequently asked questions.**