College Data Analysis

AWADHESH PRATAP SINGH

Data Analysis

PROJECT

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🎯 Project Objective:

This project focuses on analyzing the admission, academic, and placement data of **XYZ College**, Lucknow to uncover meaningful patterns and insights. The goal is to **understand city-wise and branch-wise student trends, evaluate placement performance including CTC and conversion ratios, and study the impact of CGPA**, attendance, and skills on placement success. The analysis also highlights skill gaps vs industry requirements, identifies top recruiters and hiring patterns, and pinpoints stages where students face the most challenges.

Overall, the objective is to provide actionable insights that help the college **increase admissions, improve placement outcomes**, and strengthen its long-term success.

Welcome to College Data Analysis Report (Overview)

Total Student	Total Placed Student	Overall Placement %	Highest CTC Offered	Average CTC Offered
900	572	63.56	₹ 19.90	₹ 8.21

Total Branches	Top Performing Branch	Total Company Count	Average CGPA	Max CGPA
8	ME	300	7.99	9.80

City Wise IntakeVS Placement

● Intake ● Placed

City	Intake	Placed
Kanpur	82	64
Faizabad	71	44
Ballia	69	43
Jaunpur	69	48
Mau	65	38
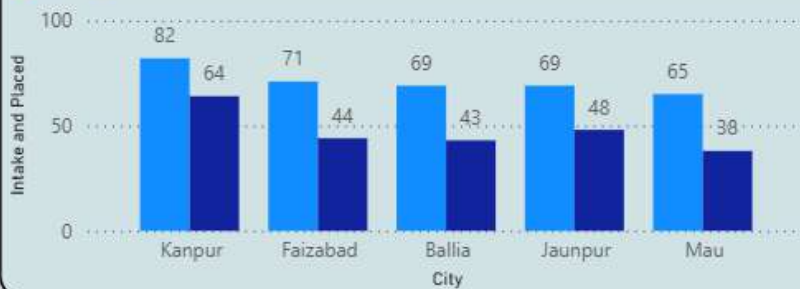
Branch Wise Placement Ratio

Branch	Placement Ratio
ME	83
EE	77
Civil	75
IT	68
CSD	67
CSE-AIML	64
EC	61
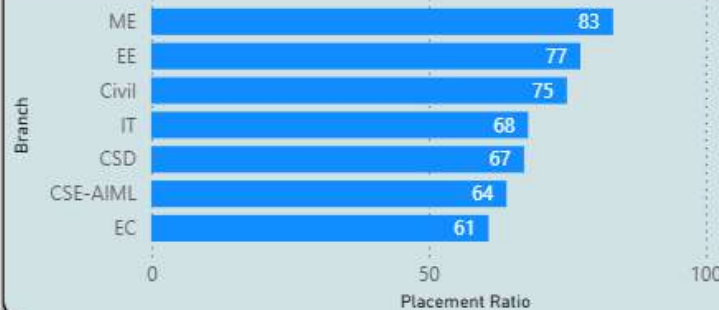
Branch

All ⌄

City

All ⌄

Gender wise Intake

Gender
● Male
● Female

435 (48.33%)
465 (51.67%)

Gender wise Placement

Gender
● Male
● Female

285 (49.83%)
287 (50.17%)
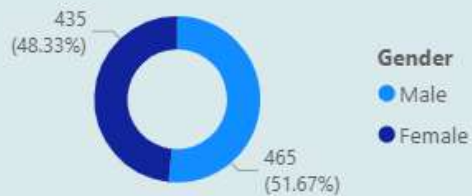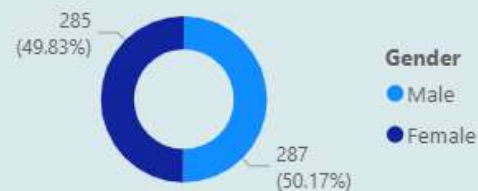
Top Performing City

Kanpur

🏫 Welcome to College Data Analysis Report (Admission Analysis)
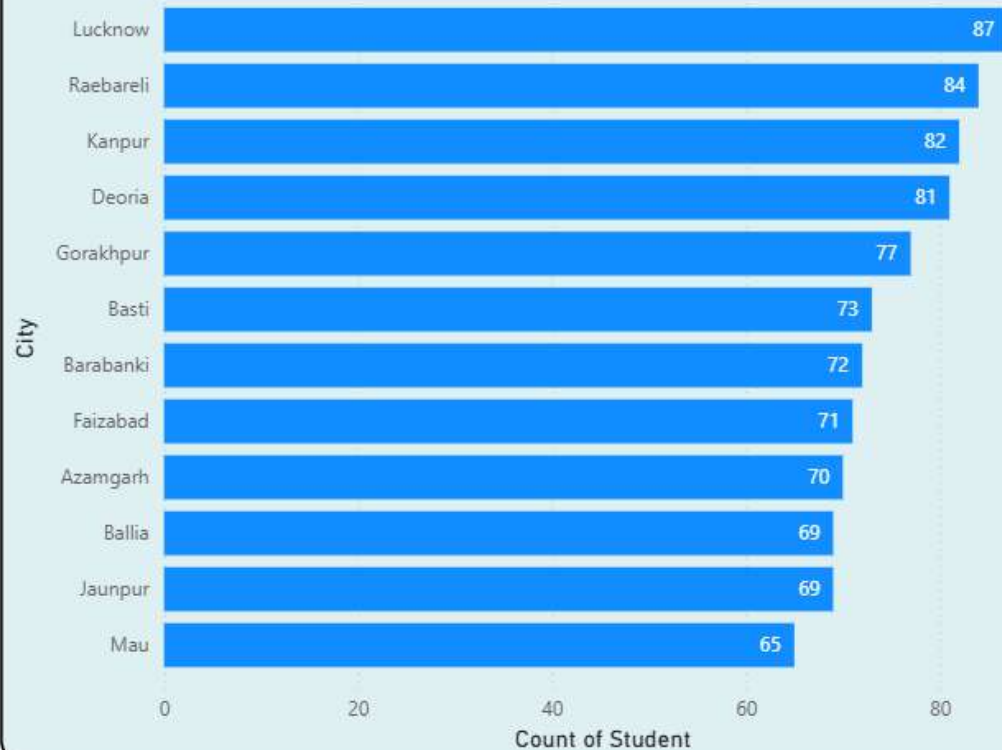
Total Seats	Total Intake	Total Branches	Top Branche	Top City
1000	900	8	CSE	Lucknow

Branche wise Intake

City	Count of Student
Lucknow	87
Raebareli	84
Kanpur	82
Deoria	81
Gorakhpur	77
Basti	73
Barabanki	72
Faizabad	71
Azamgarh	70
Ballia	69
Jaunpur	69
Mau	65

Branche wise Intake

Branch	Count of Student
CSE	234
IT	172
CSD	145
CSE-AIML	93
EE	88
EC	71
ME	52
Civil	45

Gender wise Intake
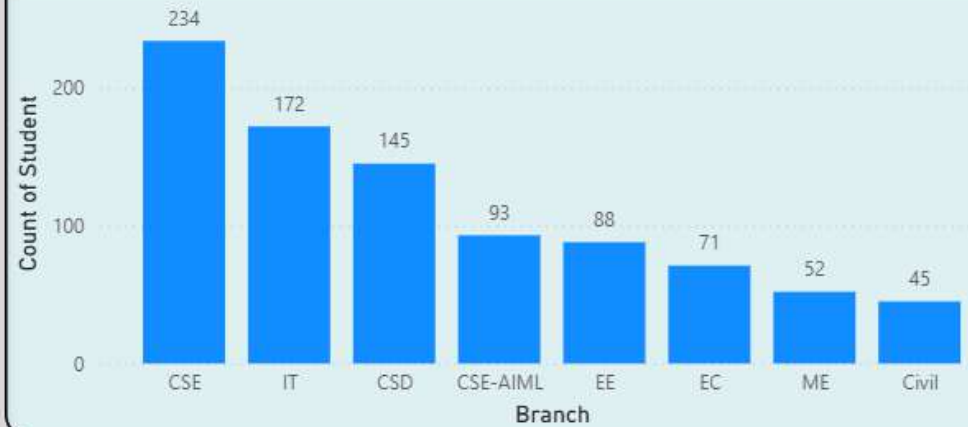
Gender
- Male — 465 (51.67%)
- Female — 435 (48.33%)
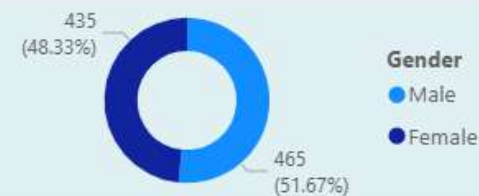
Branch

All ▼

Welcome to College Data Analysis Report (Academic Analysis)

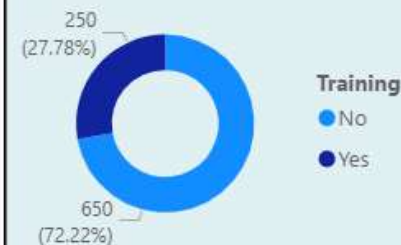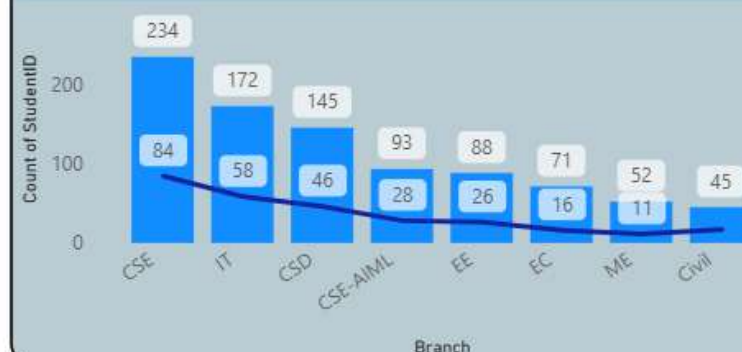| Total Intake	Average CGPA	MAX CGPA	Average Attendance	Total Trained Student
900	7.99	9.80	73.18	250

Branche wise Average CGPA

Branch	Average of FinalCGPA
ME	8.3
Civil	8.2
EE	8.1
EC	8.0
IT	8.0
CSE	7.9
CSD	7.9
CSE-AIML	7.9

Training Analysis

- No: 650 (72.22%)
- Yes: 250 (27.78%)

Training
- No
- Yes

Backlog Distribution over Branches

Count of StudentID by Branch

Branch	Count
CSE	234 / 84
IT	172 / 58
CSD	145 / 46
CSE-AIML	93 / 28
EE	88 / 26
EC	71 / 16
ME	52 / 11
Civil	45

Top 5 Student Skill's

Skill	Sum of No_of_Students
Data Structur...	515
Programming	487
DBMS	447
Machine Lear...	389
Operating Sys...	311

Most Demanding Skills

Skill	Sum of Company_Count
DBMS	87
Programming	63
Machine Lear...	28
Data Structur...	17
Operating Sys...	0
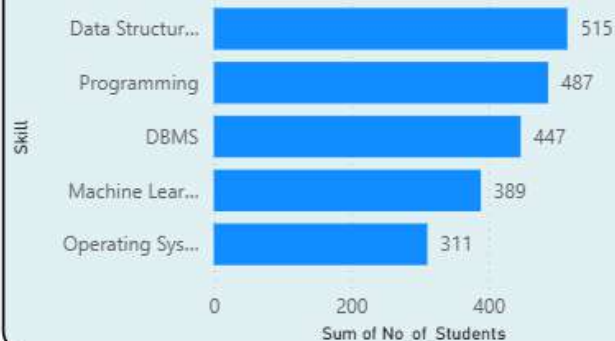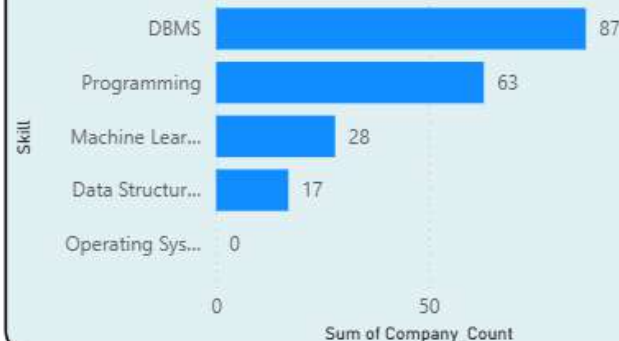
Toppers List

Branch	Topper Name	FinalCGPA	Company Name	Count of Staus_
EC	Gatik Bir	9.76	Groww	1
CSE-AIML	Anaya Deol	9.73	Capgemini	1
ME	Shray Bala	9.79	Ashok Leyland	1
EE	Miraya Sharaf	9.80	Alstom	1
CSD	Nitya Shetty	9.77	Accenture	1
CSE	Umang Gaba	9.79	Accenture	1
IT	Jhanvi Varkey	9.77	Accenture	1
Civil	Jhanvi Vaidya	9.77	ABB India	1

Welcome to College Data Analysis Report (Company Analysis)

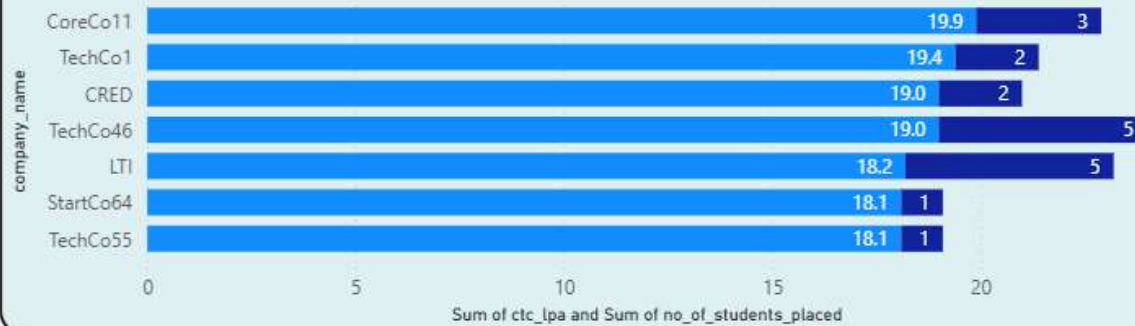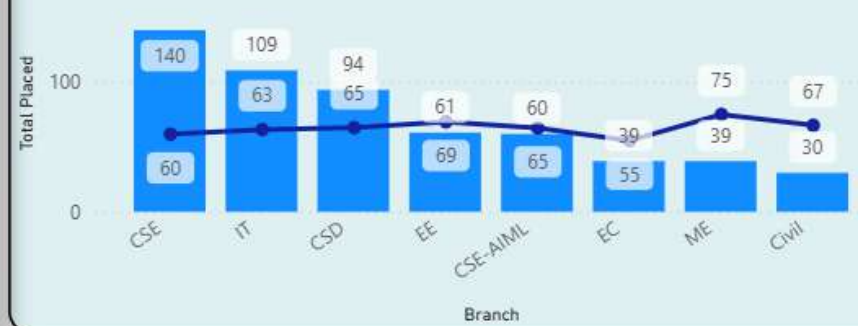| Total Company Came	Total Opening	No.of Offers Received	Best Company	No.of Offers Received
300	3522	1902	Accenture	18

Company Vs CTC

● Sum of ctc_lpa ● Sum of no_of_students_placed

company_name	Sum of ctc_lpa	Sum of no_of_students_placed
CoreCo11	19.9	3
TechCo1	19.4	2
CRED	19.0	2
TechCo46	19.0	5
LTI	18.2	5
StartCo64	18.1	1
TechCo55	18.1	1

Sum of ctc_lpa and Sum of no_of_students_placed

Placement by Branches

● Total Placed ● Placement Ratio

Branch	Total Placed
CSE	140 / 60
iT	109 / 63
CSD	94 / 65
EE	61 / 69
CSE-AIML	60 / 65
EC	39 / 55
ME	75 / 39
Civil	67 / 30

Total Company Came

domain	Count of company_id
Software	90
EdTech	50
Sales	50
Finance	42
EE	23
EC	19
Civil	14

Count of company_id

Company Vs Location

location	Count of company_id
Chennai	62
Bangalore	52
Gurugram	52
Noida	49
Pune	43
Hyderabad	42

Domian

- Select all
- Civil
- EC
- EdTech
- EE
- Finance
- ME
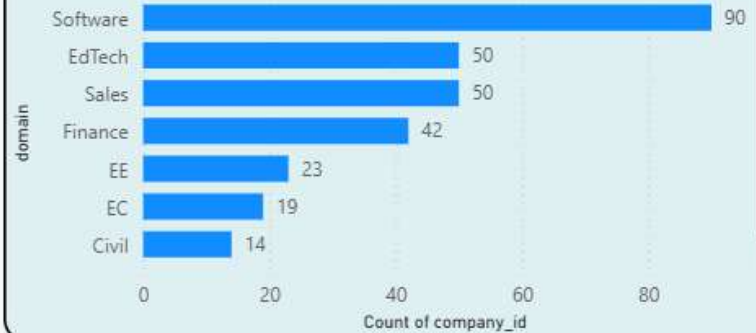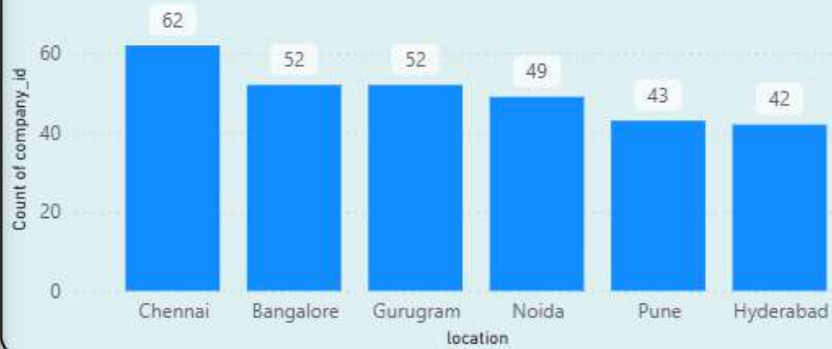
🏫 Welcome to College Data Analysis Report (Skill Gap)

Total Unique Skills	Total U. Student Skills	Most Demanding Skill	Total Unique Skills
90	**45**	**36**	**90**

Most demanding Skills

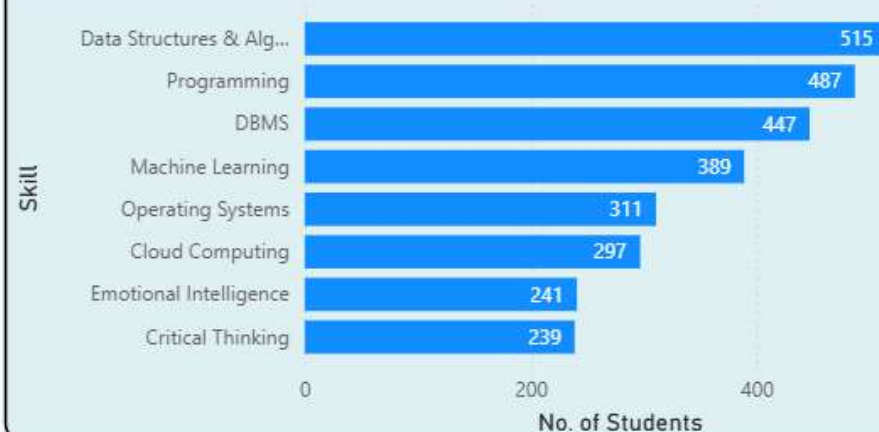| Skill	No. of Students
Communication	100
DBMS	87
SQL	87
Data Analysis	78
Data Visualization	78
Programming	63
Python	63
Negotiation	50
Presentation Skills	50
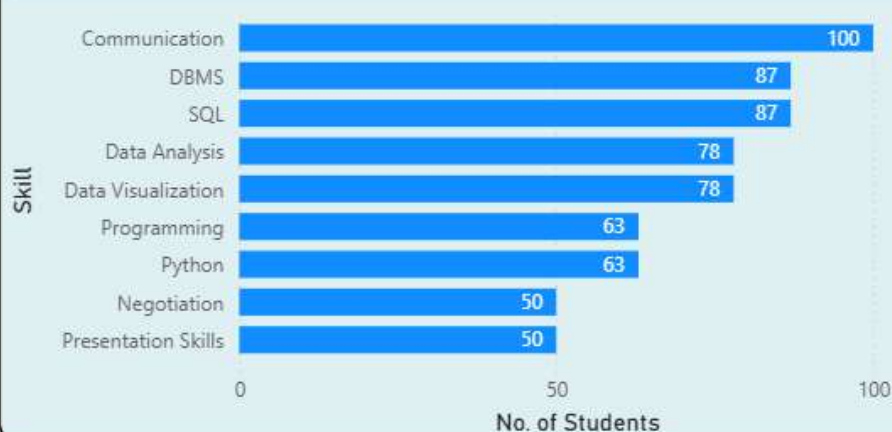
Most Trending Skills in Student's

Skill	No. of Students
Data Structures & Alg...	515
Programming	487
DBMS	447
Machine Learning	389
Operating Systems	311
Cloud Computing	297
Emotional Intelligence	241
Critical Thinking	239

Skill Gap

● Sum of Company_Count ● Sum of No_of_Students

Skill	Company_Count	No_of_Students
Communication	100	223
DBMS	87	447
SQL	87	0
Data Analysis	78	0
Data Visualization	78	117
Programming	63	487
Python	63	0
Negotiation	50	0
Presentation Skills	50	0
Teaching Skills	50	0

Welcome to College Data Analysis Report (Strategic Table)

SuccessFull Student's

Hometown	Name	Branch	CTC_lpa	Total Offer ▼
Faizabad	Inaaya Bhavsar	CSD	18.10	5
Jaunpur	Suhana Bhatt	IT	17.40	5
Azamgarh	Purab Sekhon	CSE-AIML	19.40	4
Gorakhpur	Badal Goyal	CSE	19.40	4
Lucknow	Neysa Contractor	CSE-AIML	17.70	4
Mau	Anika Baria	CSE	17.10	4
Raebareli	Onkar Madan	EE	19.90	4
Deoria	Anaya Deol	CSE-AIML	19.00	3
Barabanki	Elakshi Saran	CSD	19.40	2
Ballia	Arhaan Sule	CSE	19.40	1
Basti	Vedika Mandal	CSD	18.20	1
Kanpur	Stuvan Agate	EE	19.90	1

Student Intake by City

City	Count of StudentID
Lucknow	87
Raebareli	84
Kanpur	82
Deoria	81
Gorakhpur	77
Basti	73
Barabanki	72
Faizabad	71
Azamgarh	70
Ballia	69
Jaunpur	69
Mau	65