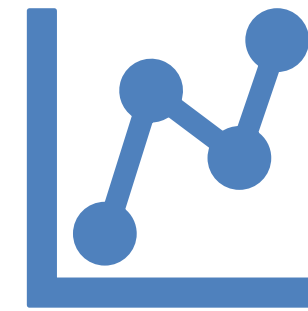


PLACEMENT BROCHURE

SESSION 2024-2025

IIT KANPUR



MASTER OF SCIENCE STATISTICS



DEPARTMENT OF MATHEMATICS AND STATISTICS

Website: <https://www.iitk.ac.in/math/>

Table of Content

2	ABOUT DEPARTMENT	CONTACT US	14
2	HOD'S MESSAGE	OUR PAST RECRUITERS	13
3	DISTINGUISHED FACULTY	PLACEMENT INFOGRAPHICS	12
4	OUR STUDENTS	PROFILES OFFERED	11
4	OUR PROGRAM	INTERNSHIP INFOGRAPHICS	10
5	OUR LEARNING JOURNEY	AREAS OF EXPERTISE	9
6	TECHNICAL SKILLS	FEW OFFERED COURSES	7
			1

ABOUT DEPARTMENT

1st in
Innovation
4th in
Engineering
5th in
Overall
nirf 2023 Rankings

5th among
Indian Universities
QS WORLD
UNIVERSITY
RANKINGS 2024

IIT Kanpur was established on November 2, 1959, with Professor P. K. Kelkar as the founding director. The first batch of Bachelors students was admitted in August 1960. It was the first institute in India to introduce a science-based engineering curriculum at the undergraduate level. From the beginning, IIT Kanpur established independent engineering and science departments, including the Department of Mathematics, which started in 1960 with two faculty members. In 2004, it was renamed the Department of Mathematics and Statistics. The department has since become one of the premier departments in the country, contributing significantly to producing well-trained statisticians. In the 2024 QS World University Rankings, IIT Kanpur is among the top two in India for statistics and data science, with research spanning interdisciplinary areas of science and technology.

HOD'S MESSAGE



“The Department of Mathematics and Statistics at IIT Kanpur came into existence in 1960. Over the years, it has evolved as one of the premier departments in the country, making a remarkable contribution in adding to the lot of well-trained, bright mathematicians and statisticians in the country and abroad. In the 2024 QS world university rankings, IIT Kanpur is rated among the top two in the country in the areas of mathematics and data science. In the recent JEE entrance, our department is positioned just after the department of Computer Science & Engineering in the Institute, in terms of opening and closing ranks. The department occupies a unique position in the Institute, offering several popular academic programs: 2 BS-MS programs (in Mathematics & Scientific Computing and Statistics & Data Science), 2 MSc 2-year programs (in Mathematics and Statistics), and 2 PhD programs (in Mathematics and Statistics). Trained by faculty who are leading experts in their fields, the students of these programs get well-set to make a mark in academia as well as industry. Past placement records of our students and achievements by our alumni provide ample evidence in this regard.

On behalf of the department, I heartily welcome the companies to the campus recruitment of IIT Kanpur.” ~ Prof. Mohua Banerjee (HOD) department of Mathematics and Statistics , IIT Kanpur

DISTINGUISHED **FACULTY**

The department takes pride in the distinguished faculty that enriches the deep roots of education in the institute.

There are a total of **53** professors, assistant professors, and associate professors whose research interests provide significant diversity in both pure and applied mathematics and statistics

Most of these professors have delivered our lectures in the first two semesters, and some exceptional professors will deliver our lectures in the upcoming two semesters.

Dr. Amit Mitra
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Dr. Arnab Hazra
Assistant Professor
Email: ahazra@iitk.ac.in

Dr. Debasis Kundu
Professor
Email: kundu@iitk.ac.in

Dr. Dootika Vats
Assistant Professor
Email: dootika@iitk.ac.in

Dr. Minerva M.
Assistant Professor
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Dr. Subhajit Dutta
Assistant Professor
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Dr. Subhra Sankar Dhar
Associate Professor
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Dr. Suprio Bhar
Assistant Professor
Email: suprio@iitk.ac.in

Dr. Mohua Banerjee
Professor
Head of the Department
Email: mohua@iitk.ac.in

OUR STUDENTS

OUR PROGRAM

ACADEMICALLY
EXCELLENT STUDENTS

55

40+

BRILLIANT STUDENTS
INTERESTED IN PLACEMENTS

MALE STUDENTS

40

15

FEMALE STUDENTS

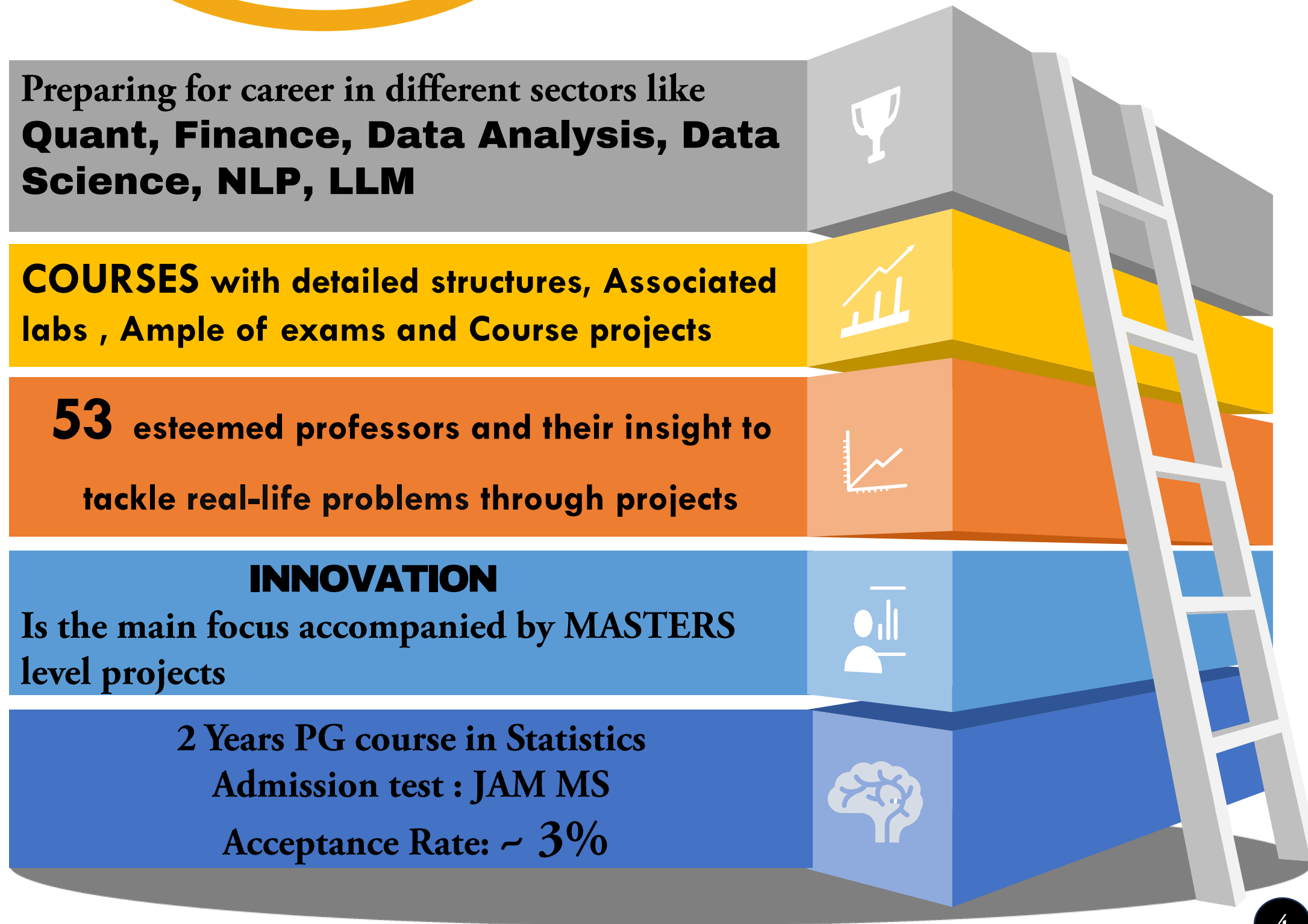
Preparing for career in different sectors like
Quant, Finance, Data Analysis, Data Science, NLP, LLM

COURSES with detailed structures, Associated labs , Ample of exams and Course projects

53 esteemed professors and their insight to tackle real-life problems through projects

INNOVATION
Is the main focus accompanied by MASTERS level projects

2 Years PG course in Statistics
Admission test : JAM MS
Acceptance Rate: ~ 3%



OUR LEARNING JOURNEY

FOUNDATION

This semester is mainly focused on

1. Strengthening our statistical & analytical foundations.
2. Introduction to Data science based programming and projects.
3. Finding the connection between statistics and data science in courses like Data science lab, Matrix Algebra and Linear Estimation.

SEM-1

INTERNSHIPS, PROJECTS & TRAINING

In the long 2.5 months (approx.) summer, our students get engaged in

1. Internships & projects based on real life problems
2. Training internships
3. Summer courses to hone their skills in their preferred domains.

SUMMER

SEM-2

STATISTICS AND DATA SCIENCE MASTERY

This rigorous semester is based on

1. Encountering many fundamental statistical courses to strengthen our data science and statistics career.
2. Courses like Data science lab -2, Statistical computing as well as purely statistical courses like Stochastic process, Statistical Inference and other courses

PREPARATIONS & PLACEMENTS

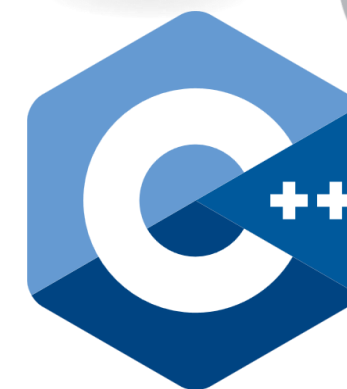
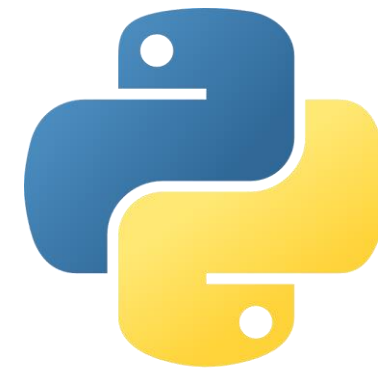
In this semester, we take more advanced courses such as AI & Statistical Methods in Data Mining, Bayesian Statistics, and Time Series Analysis. We also finalize our preparation for the upcoming placement season.

SEM-3

SEM -4

TECHNICAL **SKILLS**

- PYTHON
- R
- C and C++



- POWER BI
- TABLEAU

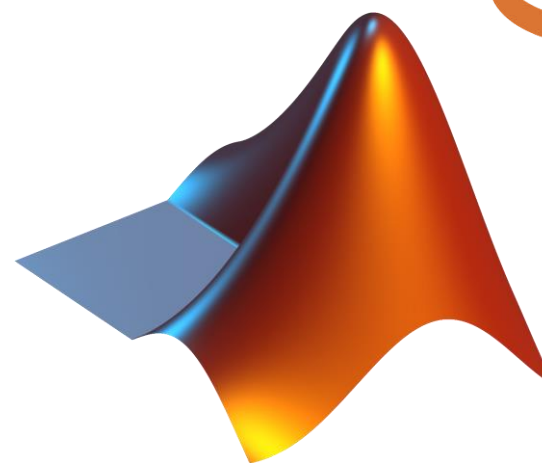


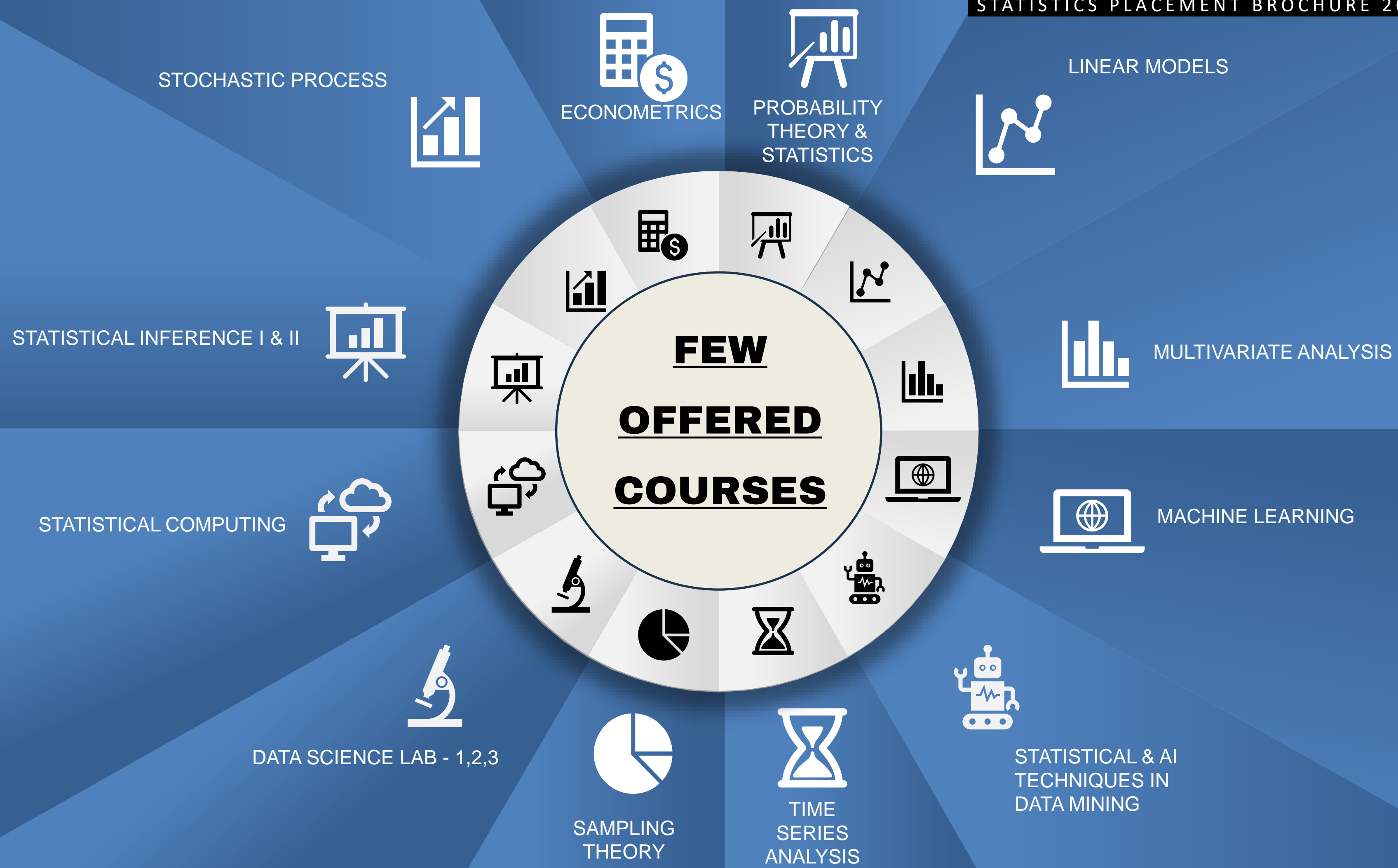
SQL



- SQL
- SAS

- EXCEL
- MINITAB
- MATLAB







MACHINE LEARNING
METHODS

PROBABILITY &
DISTRIBUTIONS



AREAS OF
EXPERTISE

DATA MINING

OPTIMIZATION
TECHNIQUES

DATABASE
MANAGEMENT

LARGE LANGUAGE
MODELS

REGRESSION
ANALYSIS

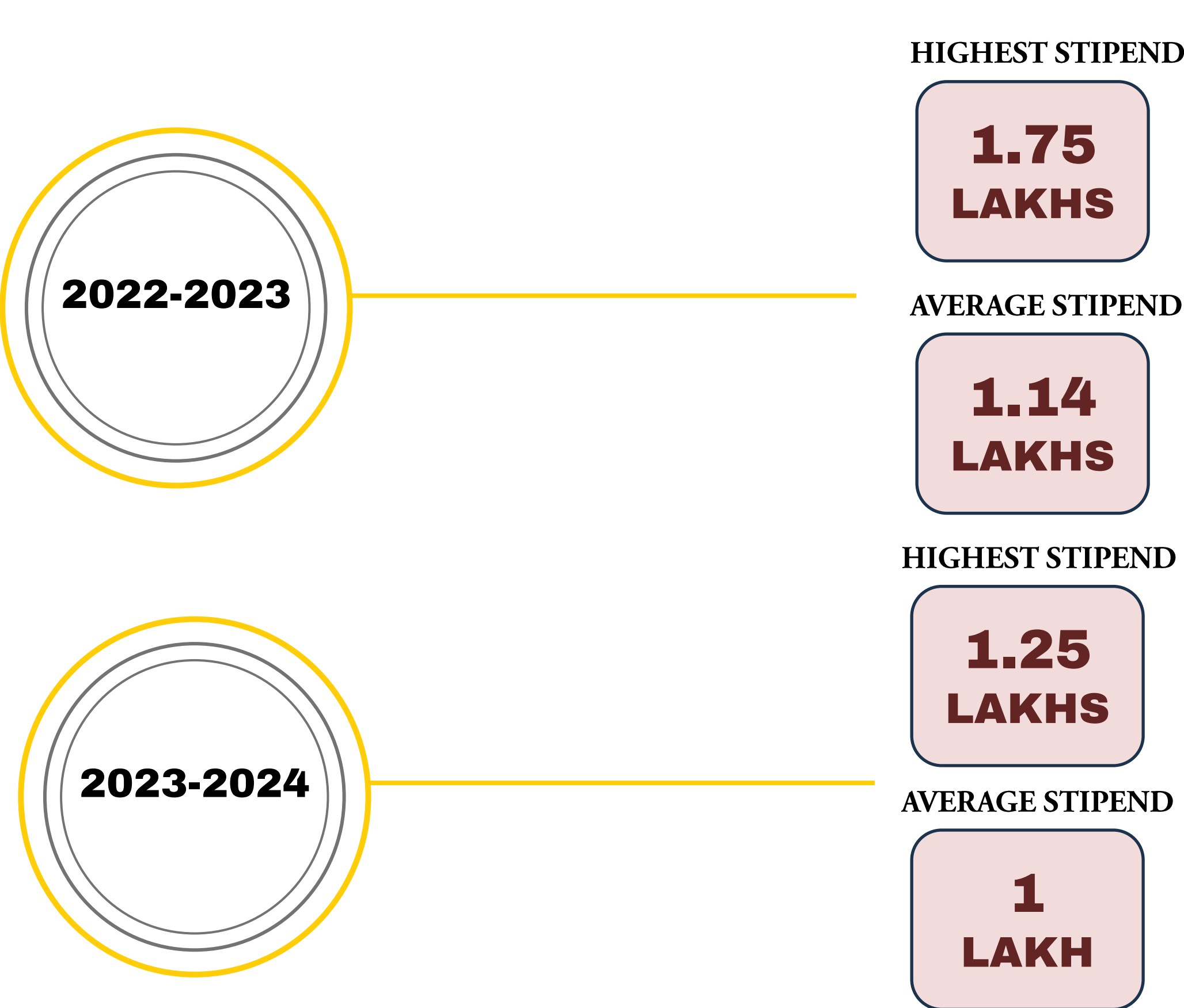
TIME SERIES ANALYSIS &
FORECASTING

ESTIMATION &
TESTING

BAYESIAN STATISTICS

NATURAL LANGUAGE
PROCESSING

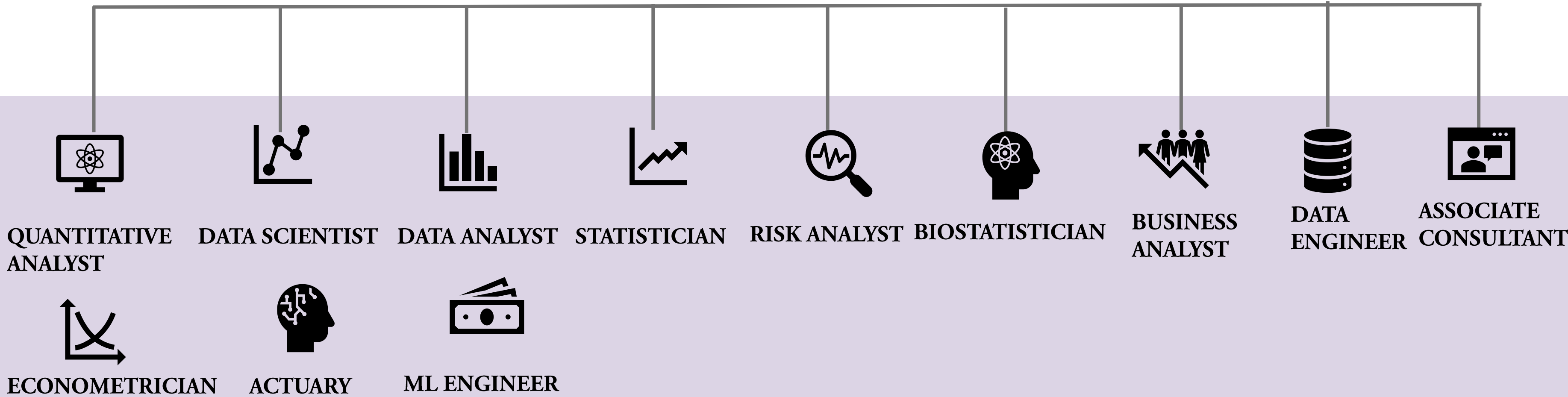
INTERNSHIP INFOGRAPHICS



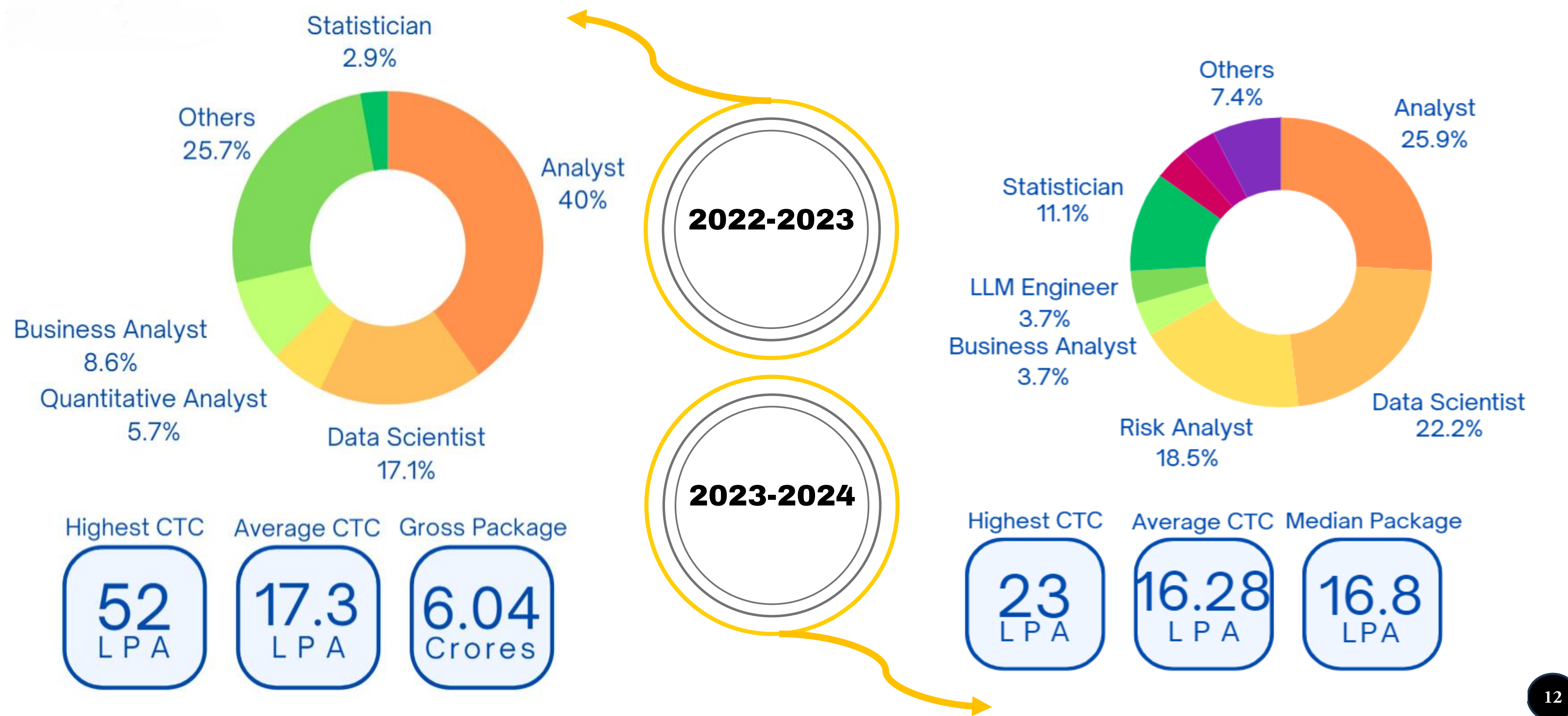
PAST INTERNSHIP RECRUITERS



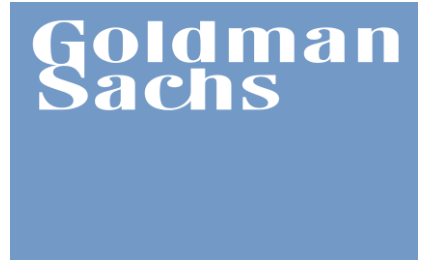
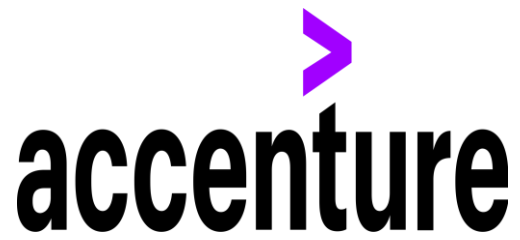
PROFILES
OFFERED



PLACEMENTS INFOGRAPHICS



OUR PAST RECRUITERS



CONTACT US



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