



DEPARTMENT OF STATISTICS
UNIVERSITY OF DELHI, DELHI - 110007

PLACEMENT BROCHURE

BATCH OF 2024-26



Two - Year Post Graduation Programme in Statistics

TABLE OF CONTENTS

From the Head's Desk	01	Focus Areas	14
About Us	02	Why Hire Us?	17
Infrastructure	03	Placement Records	21
Faculty Profile	04	Summer Internships	23
Societies	06	Past Recruiters	24
Recruitment Process	08	Sessions Conducted	26
Course Structure	09	Contact Us	28
Course Highlights	11		

FROM THE HEAD'S DESK



Prof. Girish Chandra

Dear Reader,

Welcome to the Department of Statistics, University of Delhi. The Department began its journey in 1973.

Over the past five decades we have steadily strengthened our expertise in the core Statistics curriculum as well as in research. This programme has stood the test of time and continues to hold its due place in the corporate world and academia. Our postgraduate curriculum covers a wide range of applications for industry and government-level planning, with a focus on imparting technical knowledge, promoting analytical and problem-solving skills, and enabling students to apply theoretical concepts effectively in practice. The programme also supports students preparing for government examinations and research careers. The curriculum is supported by 12 faculty members engaged in research across areas such as Statistical Inference, Survey Sampling, Bayesian Statistics, Survival Analysis, Biostatistics, Quality Control, Experimental Design. The Department facilitates student placements in research institutes, industries, and government organizations, contributing analytical solutions to issues faced by industry and society.

Thank you for visiting us.
Prof. Girish Chandra
Head, Department of Statistics

ABOUT US

University of Delhi

The University of Delhi is a premier university in the country with a venerable legacy and international acclaim for the highest academic standards, diverse educational programmers, distinguished faculty, illustrious alumni, varied co-curricular activities, and modern infrastructure. It was established in 1922 and has sustained the highest global standards and best practices in higher education.

It offers courses in 86 departments, spreads across two campuses in Delhi, has 16 faculties , and enrolls over 7 lakh students.

In the QS World University Rankings-2025, UoD occupies 328th place. The University of Delhi has been ranked at 6th position among the top 25 Central Universities. The rankings are based on indicators like academic and employer reputation, research and internationalization.

1st

**position among Central
Universities in the nation**

3rd

**among top 100 universities by
ICARE India Universities ranking**

5th

**ranked by
NIRF in 2025**

6th

**position in the country
as per CWUR 2024**

Department of Statistics

The Department of Mathematical Statistics was established in August 1973, though the teaching of M.A. in Mathematical Statistics had been introduced as early as in July 1957 at the initiative of Professor Ram Behari as part of a development programme adopted by the Department of Mathematics. Professor H.C. Gupta was the first head of the Department.

In 1971, the scope of post-graduate courses in Mathematical Statistics was extended leading to M.Sc. degree in Statistics and in 1987, the Department of Mathematical Statistics was re-named as the Department of Statistics. The Department currently offers post-graduate (M.A./M.Sc.) and Ph.D. programmes in Statistics. The Department takes pride in the fact that students get suitable placements in Research Institutes/Industries/Govt. Departments and a significant number of students are selected in the prestigious Indian Statistical Services (ISS) each year.

INFRASTRUCTURE



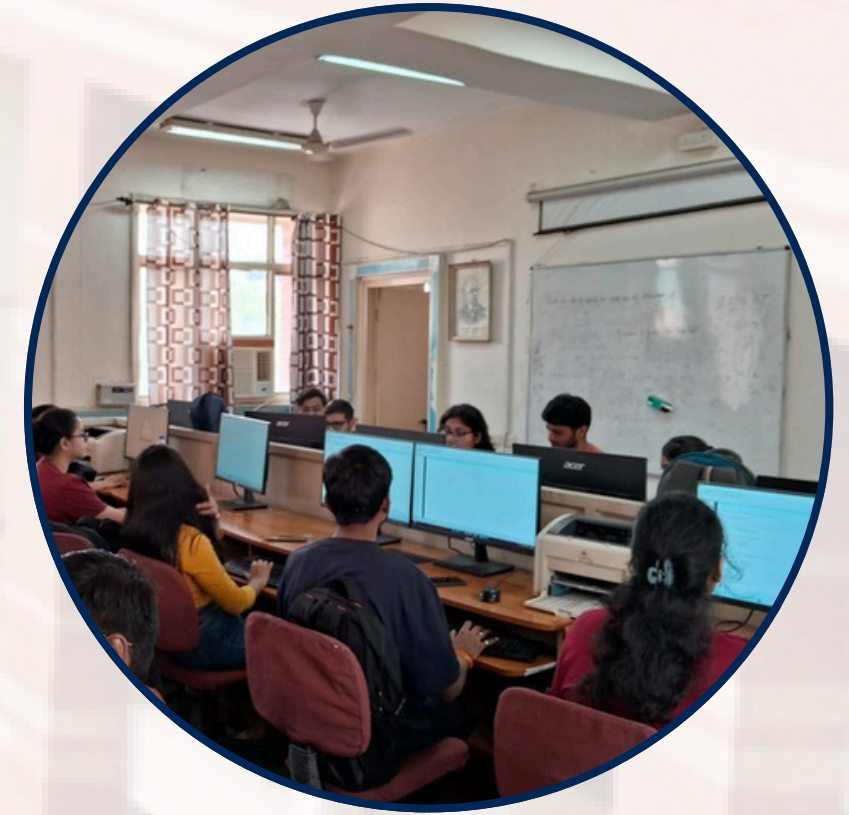
Library

The Central Science Library's extensive resources are an invaluable aid to both students and faculty. The library houses more than two lakh titles and subscribes to over 500 nationally and internationally acclaimed magazines, periodicals, and journals with archives of over two decades. The faculty of mathematical sciences & the department have their own library and internet facility.



Seminar Rooms

Seminar rooms are available to encourage discussion and enable group work and other collaborative learning projects. These rooms are equipped with modern audio-visual facilities, including LCD projectors and microphone sets for an enriched experience of an e-classroom.



Computer Labs

The Computer Labs of our department have advanced computing resources and highly competent faculty. They provide a thorough hands-on experience in data handling and statistical packages/tools for problem-solving. Students are trained in various computer languages and statistical tools required by the industries today.

FACULTY PROFILE



Prof. Girish Chandra

Head of Department

Dean of Mathematical Sciences

Qualifications: Ph.D. (Statistics), M.Sc. (Statistics), Kumaun University, Nainital, Uttarakhand

Specialized Fields: Sampling Methods, Probability Theory, Forestry Statistics, Applied Statistics



Prof. Ranjita Pandey

Professor

Qualifications: D.Phil. University of Allahabad, Allahabad, Uttar Pradesh

Specialized Fields: Event Modelling, Bayesian Inference, Demography, Survival Analysis and Lifetime Distributions



Dr. Mahendra Saha

Associate Professor

Qualifications: Ph.D. (Statistics), M.Sc. (Statistics), Visva-Bharati University, Shantiniketan, West Bengal

Specialized Fields: Industrial Statistics, Lifetime Data Analysis, Distribution Theory, Reliability Theory, Survival Analysis, and Actuarial Statistics



Prof. Poonam Singh

Senior Professor

Qualifications: Ph.D. (Statistics), M.Phil (Statistics), University of Delhi, Delhi; M.Stat., Indian Statistical Institute, Kolkata, West Bengal

Specialized Fields: Design of Experiments, Generalized Linear Models, Optimization, Statistical Quality Control, Operations Research.



Prof. Devendra Kumar

Professor

Qualifications: Ph.D. (Statistics), M.Phil. (Statistics), M.Sc. (Statistics), Aligarh Muslim University, Aligarh, Uttar Pradesh; MPS, International Institute for Population Sciences (IIPS), Mumbai, Maharashtra

Specialized Fields: Distribution Theory, Statistical Inference - Classical and Bayesian, Record Statistics, Survival Analysis, Reliability Theory, Order Statistics



Dr. Gulab Singh

Associate Professor

Qualifications: Ph.D. (Statistics), M.Sc. (Statistics), Kurukshetra University, Kurukshetra, Haryana

Specialized Fields: Stochastic Modelling, Statistical Inference, and Queueing Theory

FACULTY PROFILE



Dr. Manoj Kumar

Assistant Professor

Qualifications: Ph.D. (Statistics), M.Phil. (Statistics), Banaras Hindu University, Varanasi, Uttar Pradesh; M.Sc. (Statistics), Chaudhary Charan Singh University, Meerut, Uttar Pradesh

Specialized Fields: Bayesian Inference, Ecological Modelling, Survival and Reliability Estimation



Dr. Suman Jaiswal

Assistant Professor

Qualifications: Ph.D. (Statistics), M.Phil. (Statistics), M.Sc. (Statistics), Chaudhary Charan Singh University, Meerut, Uttar Pradesh

Specialized Fields: Reliability Modelling and life testing, Survival Analysis, Bayesian Inference, and Applied Statistics



Dr. Sumit Kumar

Assistant Professor

Qualifications: Ph.D. (Statistics), Central University of Rajasthan, Ajmer, Rajasthan; M.Sc. (Statistics), Chaudhary Charan Singh University, Meerut, Uttar Pradesh

Specialized Fields: Statistical Quality Control, Applied Statistics, Bayesian Inference, Reliability and Survival Analysis



Dr. Zuber Akhter

Assistant Professor

Qualifications: Ph.D. (Statistics), M.Phil. (Statistics), M.Sc. (Statistics), Aligarh Muslim University, Aligarh, Uttar Pradesh

Specialized Fields: Order Statistics, Records, Generalized Order Statistics, Distribution Theory, Statistical Inference



Dr. Dreamlee Sharma

Assistant Professor

Qualifications: Ph.D. (Statistics), M.Sc. (Statistics), North Eastern Hill University, Shillong, Meghalaya

Specialized Fields: Quantile function-based statistical modeling, Regression Analysis, Distribution Theory, Computational Statistics



Dr. Himanshu

Assistant Professor

Qualification: Ph.D. (Statistics), Banaras Hindu University, Varanasi, Uttar Pradesh; M.Sc. (Statistics), Indian Institute of Technology, Bombay, Mumbai, Maharashtra

Specialized Fields: Competing Risks, Machine Learning, Advanced Bayesian Computation, Reliability and Survival Analysis

SOCIETIES



Prof. Ranjita Pandey

Co-ordinator
Credence:
The Placement Cell

CREDENCE: THE PLACEMENT CELL

The Placement Cell, established in 1990 and renamed Credence in 2016, serves as the corporate interface for the Department. Comprising student representatives, it bridges the gap between the corporate sector and the student community.

Credence primarily facilitates the Summer Internship and Final Placement process. It mentors students through mock aptitude tests, shares recruitment criteria, manages student profile databases, and promotes industry interaction via webinars and presentations.



Dr. Zuber Akhter

Co-ordinator
Credence:
The Placement Cell

PLACEMENT CO-ORDINATORS



**Nitesh
Yadav**



**Pratiksha
Sharma**



**Ritam
Bhattacharya**



**Soujatya
Majumdar**



**Soumyajyoti
Chakraborty**

SOCIETIES

UDAAN - THE SOCIO-CULTURAL CELL



Dr. Dreamlee Sharma

Co-ordinator
Udaan

Udaan - Socio Cultural Cell, Department of Statistics is a dynamic platform that nurtures leadership, teamwork, and communication, helping students grow beyond academics. Through engaging workshops, diverse activities, and seven vibrant celebrations, it shapes individuals who contribute meaningfully to their community.

It fosters social responsibility through initiatives like blood donation camps, cloth collection drives, and environmental campaigns. Cultural events, including Freshers', Farewells, Basant Panchami, and Ulhaas (Ethnic Day), celebrate diversity and create lasting memories. Knowledge-sharing initiatives such as National Statistics Day, workshops, and awareness programs encourage intellectual and personal growth. More than just an cell. Udaan is a transformative journey that inspires students to rise, lead, and make a difference.



THE HERITAGE CLUB

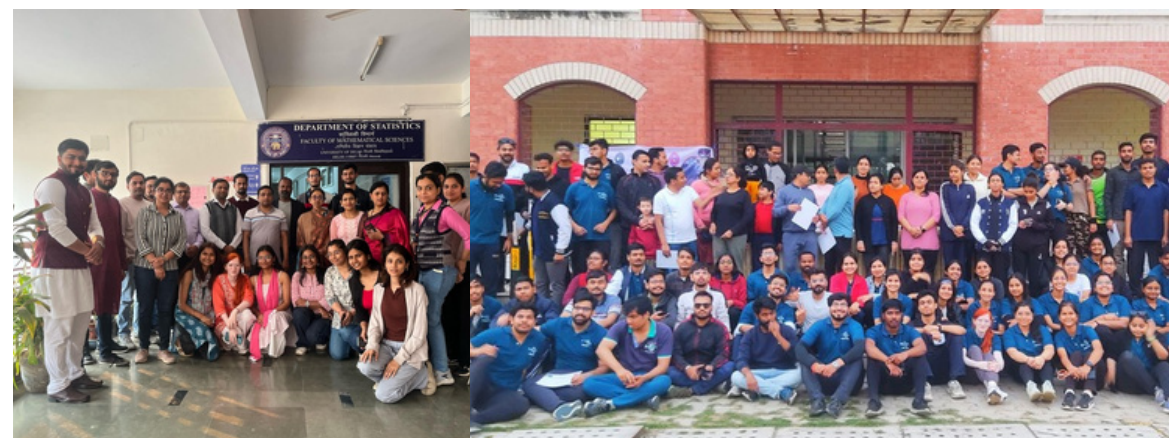


Dr. Suman Jaiswal

Co-ordinator
Heritage

The Heritage club is a sanctuary where the past gracefully meets the present. Established in 2017 with the vision of preserving and sharing cultural stories of our nation, the club organizes various events throughout the year which foster deep understanding and appreciation of India's rich cultural heritage. Through events such as sports day and celebration of International Yoga Day, the club promotes physical well being of students which results in holistic student development.

Heritage walks take students back in time, offering a unique learning experience and instilling pride in our rich legacy. Celebrating International Mother Language Day promotes the preservation of native languages and highlights the value of multilingualism. On National Youth Day, successful alumni inspire students by sharing their journeys. These events enrich campus life by bringing history and tradition to the forefront.



INFINITY- THE SOCIAL MEDIA CELL

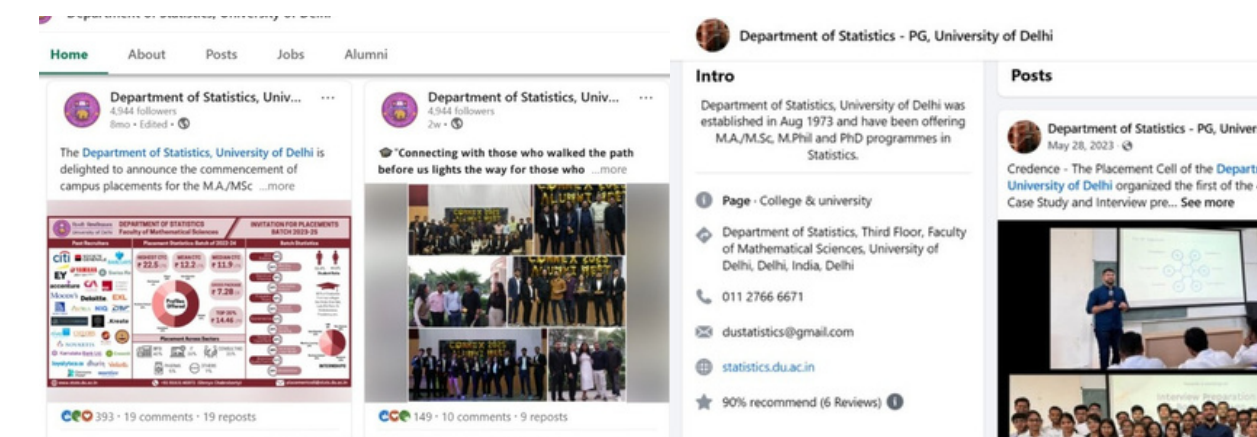


Dr. Sumit Kumar

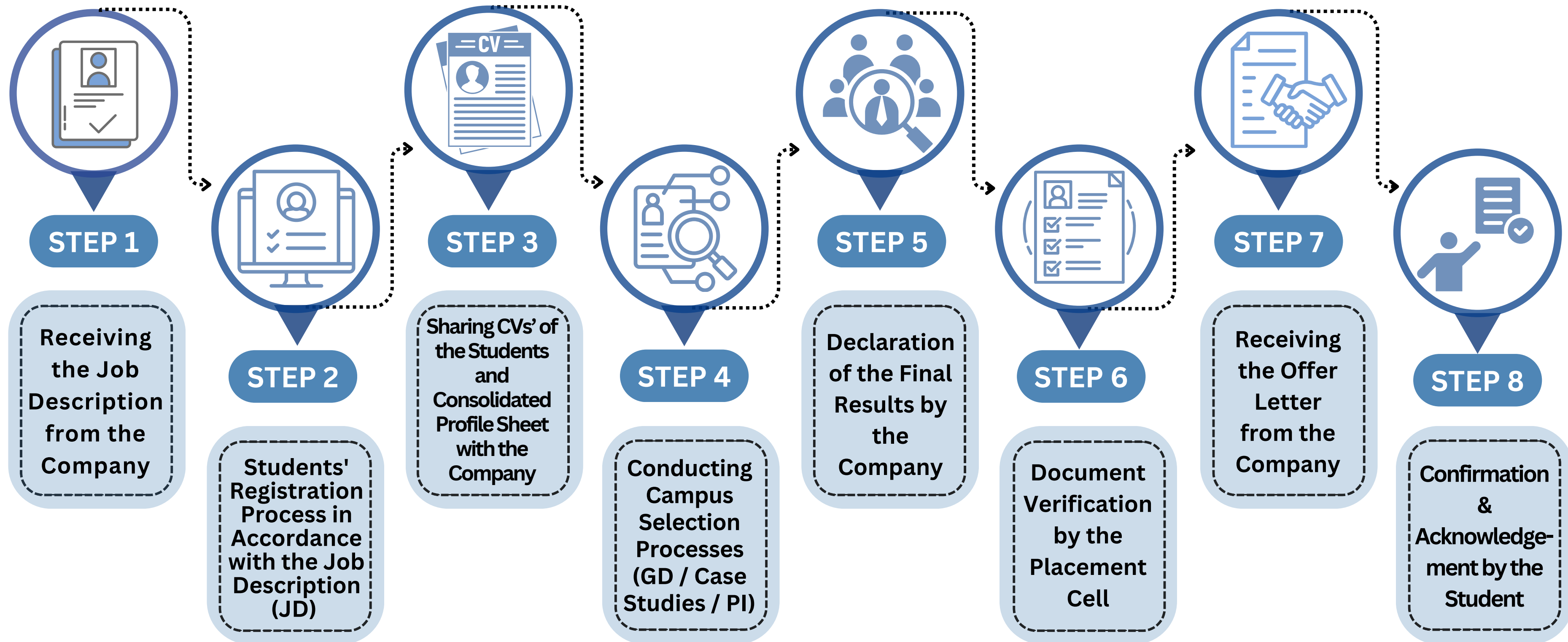
Co-ordinator
Infinity

Infinity - The Social Media Cell, established in 2020, plays a crucial role in managing the department's digital presence across platforms like LinkedIn and Facebook. It bridges the department's academic activities with the broader community by sharing key events, achievements, and initiatives, enhancing engagement and visibility. Additionally, it integrates and promotes the efforts of the department's three flagship clubs—Credence, Udaan, and The Heritage—ensuring their initiatives gain recognition.

Beyond content management, Infinity Cell shapes the department's digital strategy through analytics, creative storytelling, and innovative campaigns. By establishing a strong online identity, it strengthens the department's influence, supporting its mission of academic excellence and community engagement.



RECRUITMENT PROCESS



COURSE STRUCTURE

COURSE STRUCTURE

I SEMESTER

THEORY:

Analysis
Probability Theory
Statistical Methodology
Survey Sampling

PRACTICALS:

Data Analysis - I (Using Excel)
Statistical Computing - I (Using C)

II SEMESTER

THEORY:

Linear Algebra
Stochastic Processes
Statistical Inference - I
Design of Experiments

PRACTICALS:

Data Analysis - II (Using Excel)
Problem Solving using C Language

III SEMESTER

THEORY:

CORE:

Statistical Inference - II
Multivariate Analysis
Generalized Linear Algebra

ELECTIVES:

Biostatistics
Operational Research
Non-Parametric Inference
Computational Techniques
Actuarial Statistics

PRACTICALS:

Statistical Computing - II (Using R Software)
Problem Solving using SPSS - I

IV SEMESTER

THEORY:

CORE:

Econometrics and Time Series Analysis
Demography, Statistical Quality Control and Reliability

ELECTIVES:

Applied Stochastic Processes
Order Statistics
Bayesian Inference
Advanced Survey Sampling Theory
Advanced Theory of Experimental Designs
Advanced Statistical Computing and Data Mining

PRACTICALS:

Problem Solving using R software - II
Problem Solving using SPSS - II

COURSE HIGHLIGHTS

THEORETICAL STATISTICS

The 2-year M.Sc. Statistics programme combines comprehensive training in statistical methods with practical applications, effectively addressing the specific demands of diverse industries.

BAYESIAN INFERENCE

- Prior Elicitation and Posterior Analysis
- Computing Loss and Risk Function
- Point and Interval Estimation
- Hypothesis Testing
- Predictive Inference

MULTIVARIATE ANALYSIS

- Multivariate Normal Distribution
- Wishart Matrix
- Hotelling's T2 Statistics
- Factor and Cluster Analysis
- Multivariate Regression

ORDER STATISTICS

- Distribution Theory
- Order Statistics as Markov Chain
- Asymptotic Distribution
- Random division of an Interval
- Rank Order Statistics related to Simple Random Walk

PROBABILITY THEORY

- Random Variables
- Probability Distributions
- Law of Large Numbers
- Concept of Independence
- Modes of Convergence

GENERALIZED LINEAR MODELS

- Logistic Regression
- Poisson Regression
- Log Linear Models
- Family of GLM
- Power Class Link Functions
- Quasi Likelihood

DESIGN OF EXPERIMENTS

- Linear Estimation and ANOVA
- Incomplete Block Design
- Finite Field and Finite Geometry
- Factorial Experiments
- Confounding
- Fractional Factorial Experiments

STATISTICAL INFERENCE

- Sufficiency, Efficiency and MLE
- NP Lemma, LR Test and Large Sample Tests
- Interval Estimation
- SPRT, Non parametric Methods
- Rank Order, Linear Rank Statistics

STOCHASTIC PROCESSES

- Poisson Process
- Birth Death Process
- Brownian Motion
- Branching Process
- Martingales

APPLIED STATISTICS

The 2-year M.Sc. Statistics programme combines comprehensive training in statistical methods with practical applications, effectively addressing the specific demands of diverse industries.

STATISTICAL QUALITY CONTROL • Process Control and Product Control Charts • CUSUM Charts • V Mask & Decision Interval Technique • Economic Design of X-bar Chart • Sampling Inspection Plans	ADVANCED THEORY OF EXPERIMENTAL DESIGNS • Partially Balanced Incomplete Block Design • Fractional Factorial Plans and Orthogonal Arrays • Response Surface Designs • Robust Parameter Design • Mixture Experiments • Cross-over Designs	TIME SERIES & FORECASTING • Time Series as a Discrete Parameter • Stochastic Processes • Moving Average, Auto Regressive, ARMA & ARIMA Models • Exponential & Adaptive Smoothing Models	OPERATIONAL RESEARCH • Linear Programming • Transportation Problems • Simulations • Inventory Theory • Decision Analysis	ACTUARIAL STATISTICS • Insurance Models & Risk Theory • Premium Principles, Utility Theory • Survival Distributions, Life Tables • Life Insurance, Annuities, Present Value
BIOSTATISTICS • Sensitivity, Specificity and ROC • Estimation of Odd's Ratio and Relative Risk • Survival Time Distribution • Planning and Designing • Clinical Trials • Mendelian Genetics and Inheritance	ECONOMETRICS • GLM with Stochastic Regressors • Instrumental Variables • Bayesian Analysis of GLM • Distributed Lag Models • Simultaneous Equations Model	RELIABILITY • Reliability & Expected Longevity of Different Types of Systems • Estimation of Reliability and Expected Survival Time for Censored Failure Time Data • Preventive Maintenance Policy	DEMOGRAPHY • Measures of Mortality and Fertility • Construction of different life tables • Relationships between life tables functions • Population Growth Models • Population Projection	DATA MINING • Artificial Neural Networks • Clustering and Market Segmentation • Principle Component Analysis • Regression Trees • Statistical Simulations • Expectation - Maximization Algorithm

FOCUS AREAS

INSIGHTS & ANALYTICS

RISK ANALYTICS

Helps to develop risk models that protect against unforeseen risks while optimizing profitability. Develop models that mitigate risk and protect the organization's products or services against potential harm.



DATA SCIENCE

Applies statistical analysis and advanced techniques to turn complex data into actionable insights, helping clients make informed decisions, boost performance, and achieve business goals.



ACTUARIAL ANALYTICS

Helps organizations mitigate risk by providing services that focus on risk management. Services are designed to help organizations be proactive in managing risk, ensuring that they are better prepared to face potential challenges.



BUSINESS ANALYTICS

Extracts valuable insights to enhance business processes. Leverages data-driven methods to uncover insights that refine operations and foster growth. Enables businesses to make informed decisions and gain a competitive edge. Transforms data into insights that drive strategy and business value.



SPORTS ANALYTICS

Helps teams make strategic decisions that give them a competitive edge. Provides organizations with a competitive advantage through informed decision-making, helping them achieve success and stand out in their game.



DATA ANALYSIS

Cleanses, transforms, and models data such that valuable insights can be unlocked, leading to informed decision-making with confidence. Enables the discovery of useful information and informative conclusions, providing a solid foundation for strategic decision-making.



DOMAIN EXPERTISE

MARKET RESEARCH

Provides important information that helps to identify and analyze the needs of the market, market size, and competition. It also provides information that helps businesses understand their market by analyzing market needs, size, and competition.



OPERATIONAL RESEARCH

Quantifies relevant factors and uses mathematical techniques to arrive at an optimal decision, helping to solve complex problems. Utilizes mathematical techniques to solve complex problems under uncertainty



CONSULTING

Paves the way for making suitable changes and analyzing business problems to find solutions that help the business thrive. Analyzes business problems and provides possible ways to deal with them, helping to make necessary changes for success. Provides data-driven insights to support effective consultancy and client decision-making.



DEMOGRAPHY

Delves into demographic processes to gain a deeper understanding of population dynamics. Seeks to understand population dynamics by analyzing demographic processes and trends, providing insights into changes in population size, structure, and distribution over time. Applies statistical methods to interpret demographic data and inform policy and planning decisions.



BIOSTATISTICS

Involves translating data into meaningful information to make logical and beneficial public health decisions. Translates data into actionable insights, enabling public health decision-makers to make informed decisions.



ACTUARIAL STATISTICS

Uses probability and statistical models to assess risk and uncertainty in insurance, pensions, and finance. Helps organizations make informed decisions by predicting future events like mortality, illness, or financial loss.



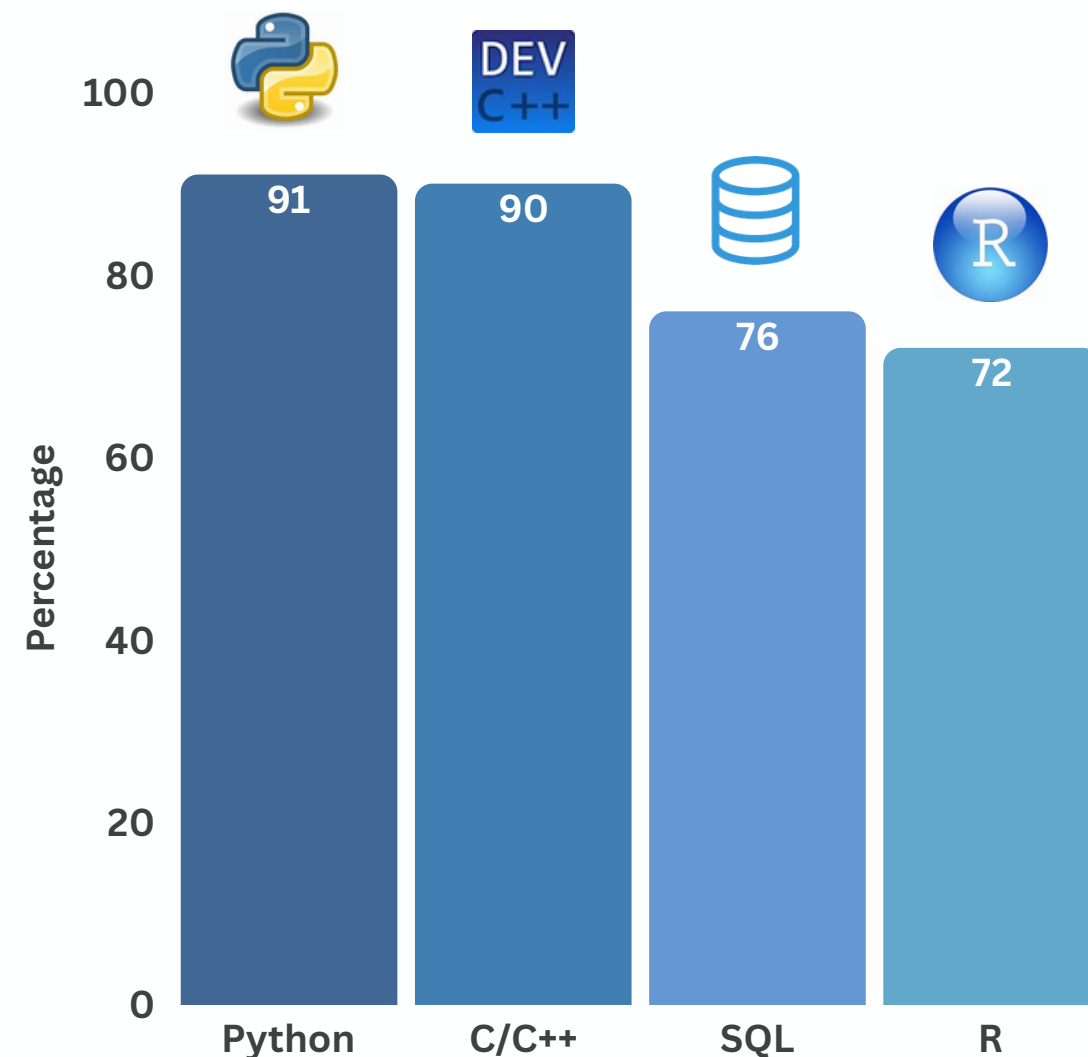


**WHY HIRE
US?**

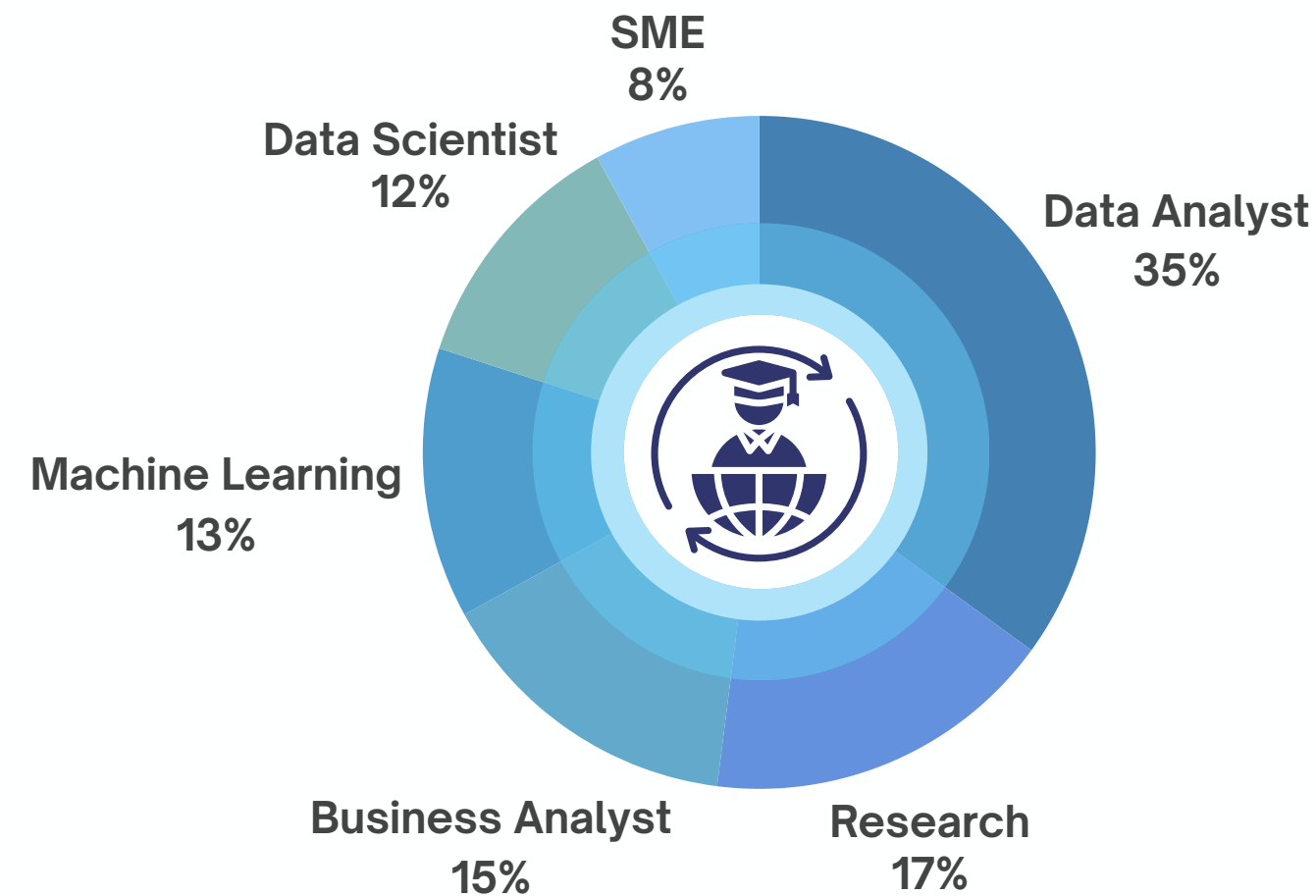
CORE COMPETENCIES

We, the students of statistics, play a crucial role in today's world where a vast amount of data is being generated. We can apply technical and academic understanding to provide sound advice based on statistics. At the Department of Statistics, the focus is not only on academic understanding but on the overall development of the subject. We have been nurtured to inculcate and develop the aptitude for a wide range of statistical and analytical skills, including problem-solving and soft skills, to enable students to take prominent roles in a wide spectrum of employment and research.

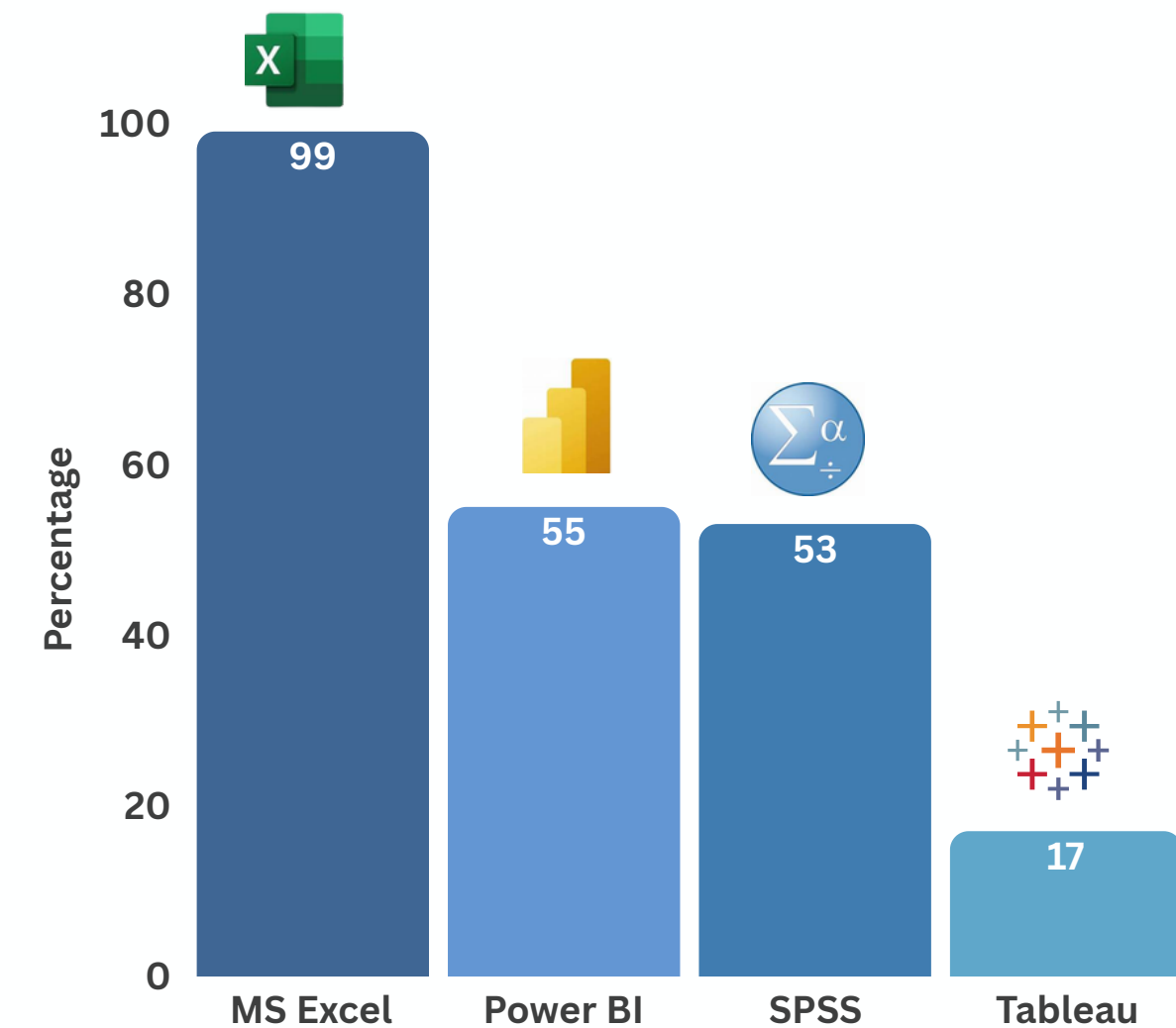
LANGUAGES KNOWN



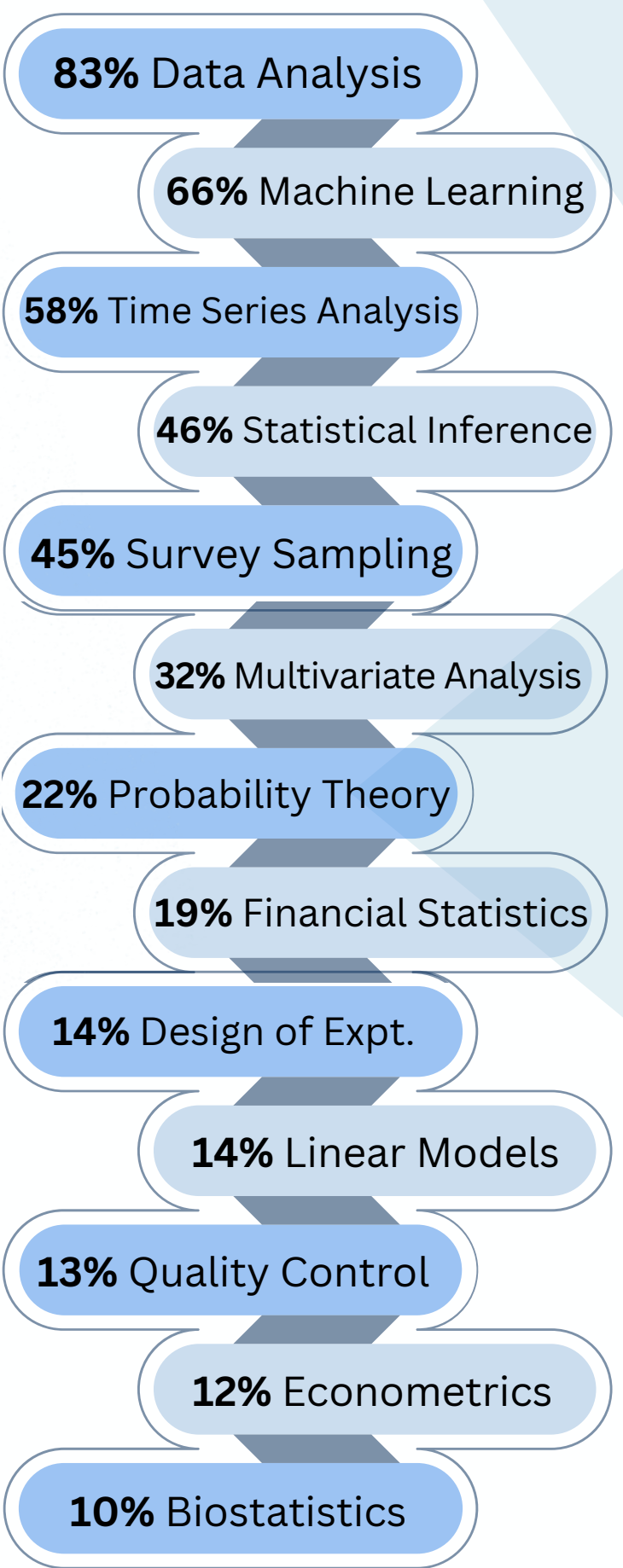
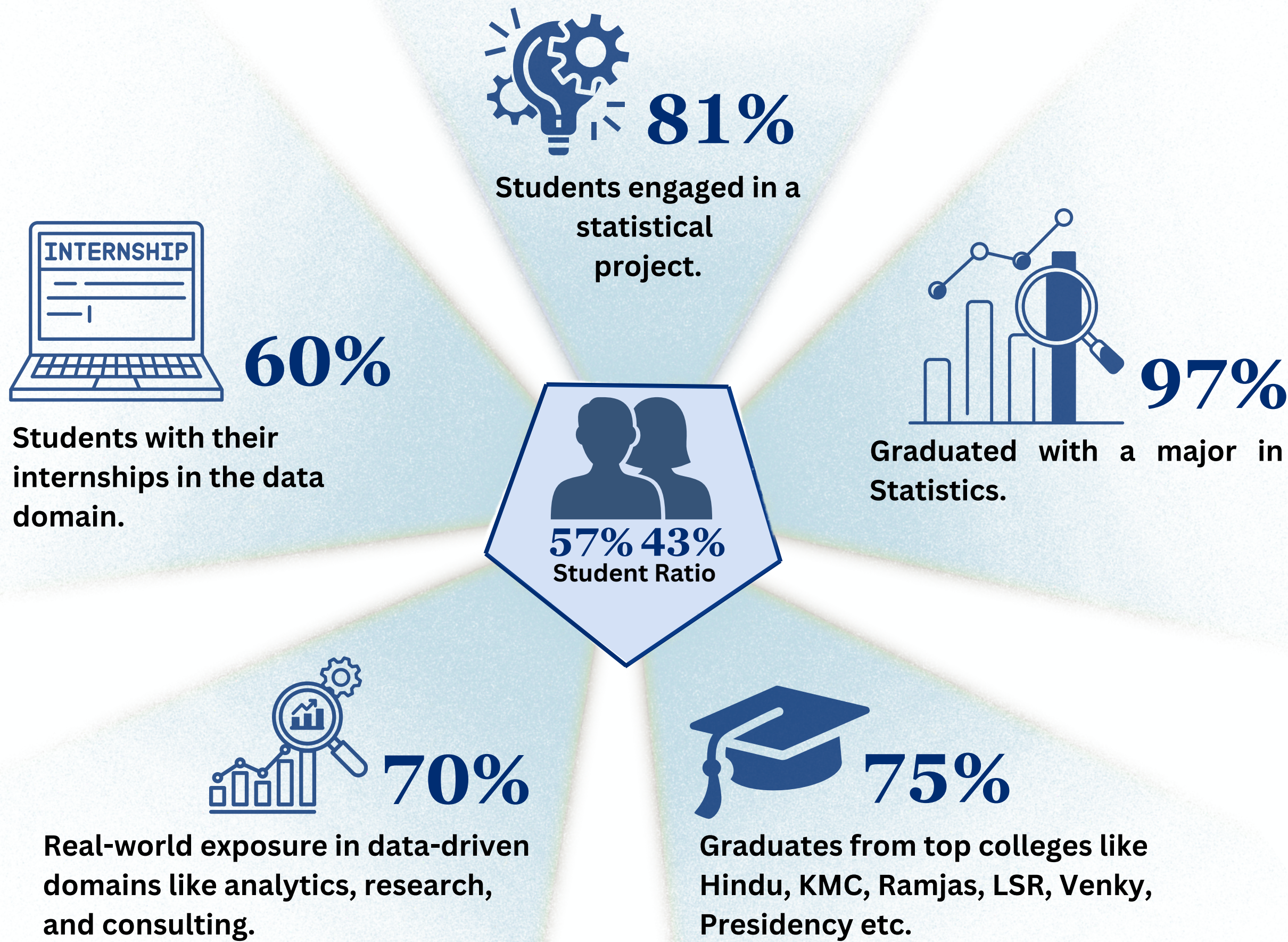
FIELDS OF INTERNSHIPS



SOFTWARES KNOWN

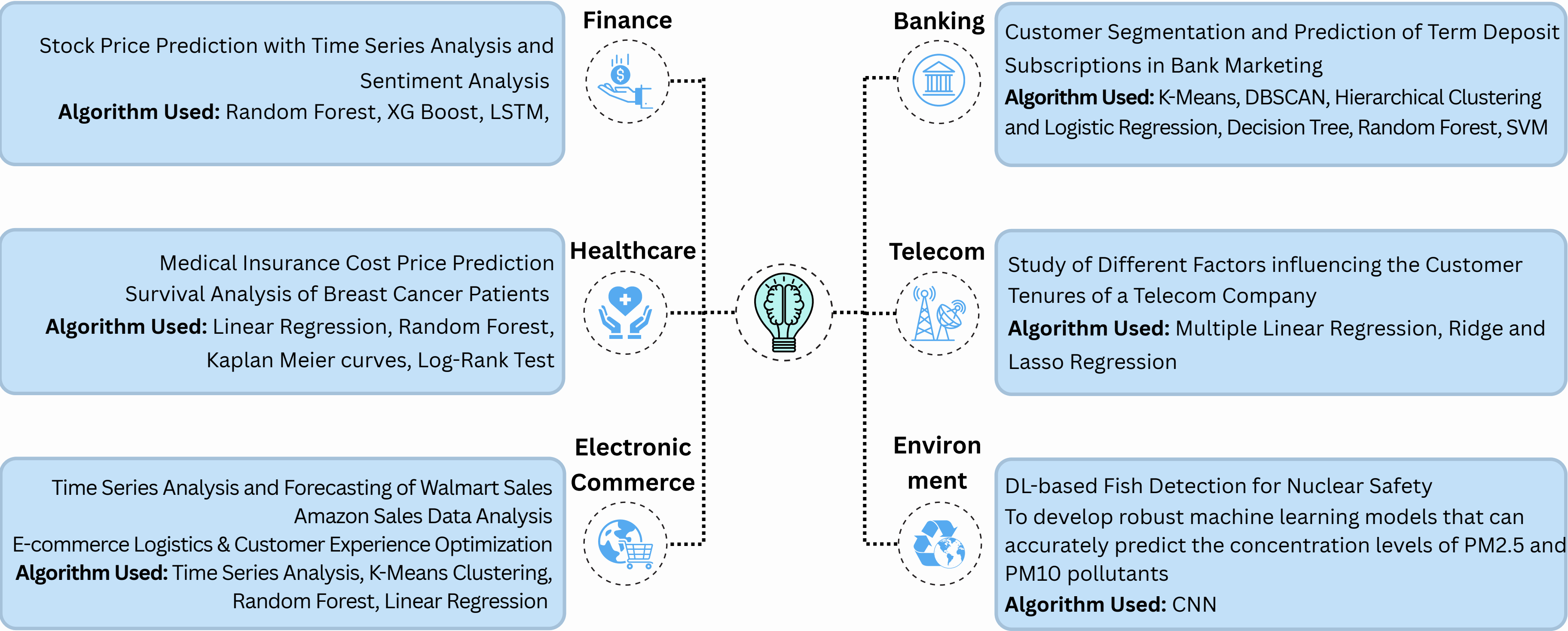


BATCH STATISTICS



AREAS OF EXPERTISE

INDUSTRY-ALLIGNED PROJECT



PLACEMENT RECORDS

PLACEMENT RECORDS

We are pleased to share that **2024-25** has been a fruitful placement season for Credence, with several students securing roles in reputed organizations across various sectors.



Highest CTC

₹ **23.0 LPA**



Average CTC

₹ **10.4 LPA**



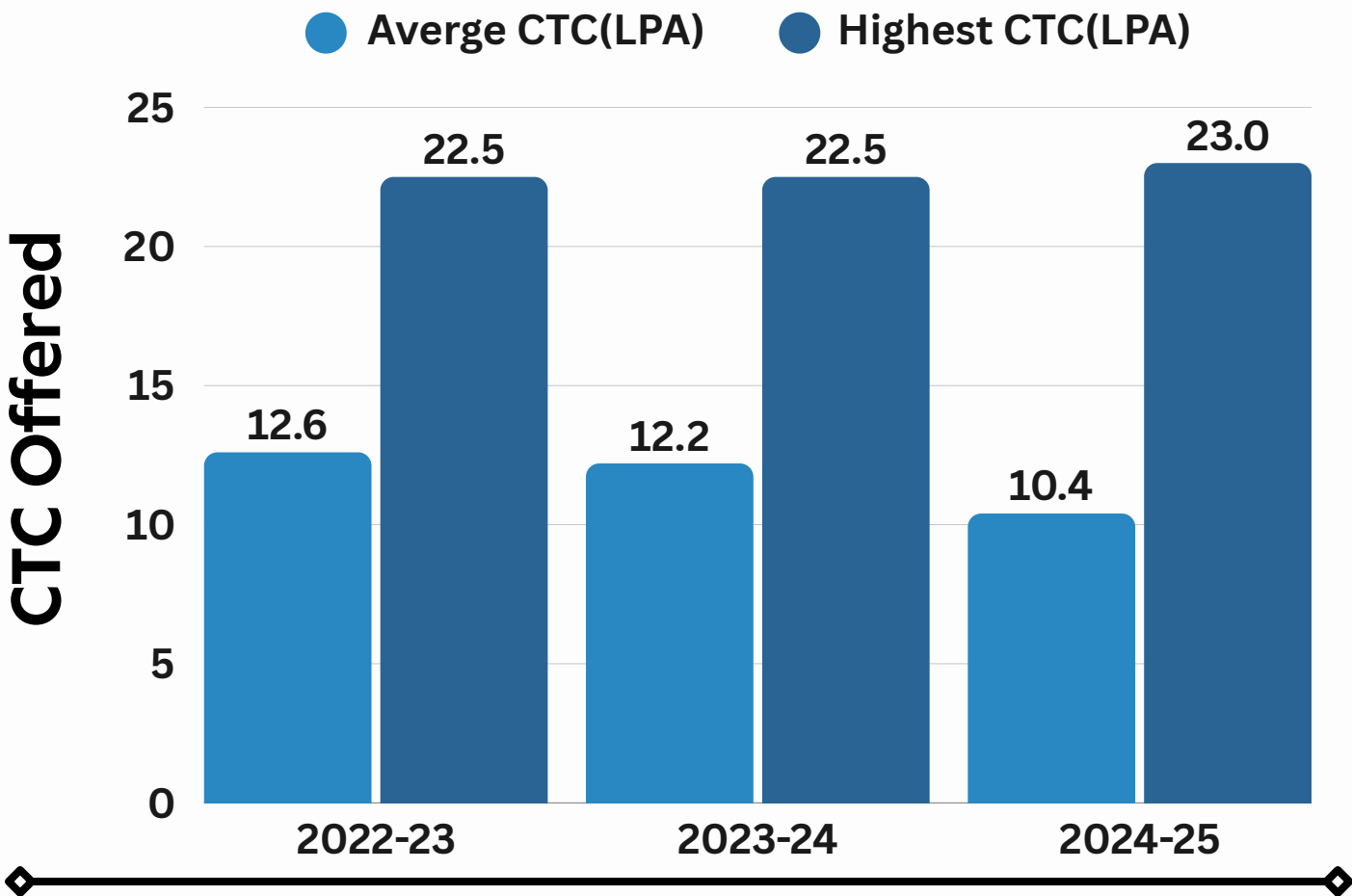
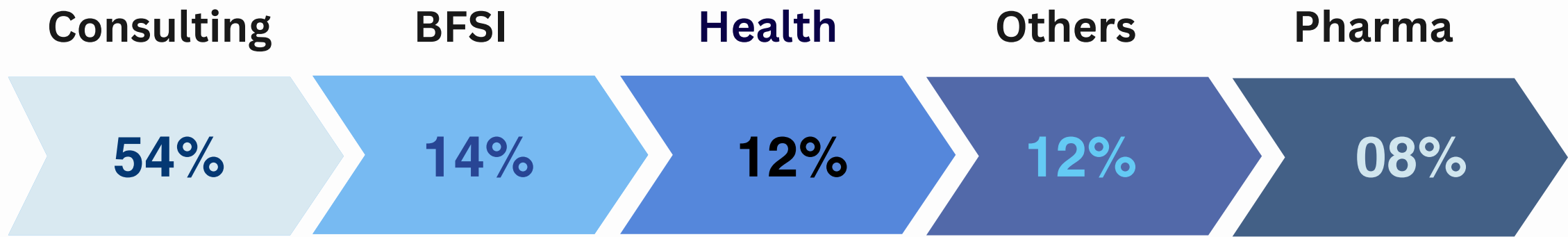
Median CTC

₹ **9.0 LPA**

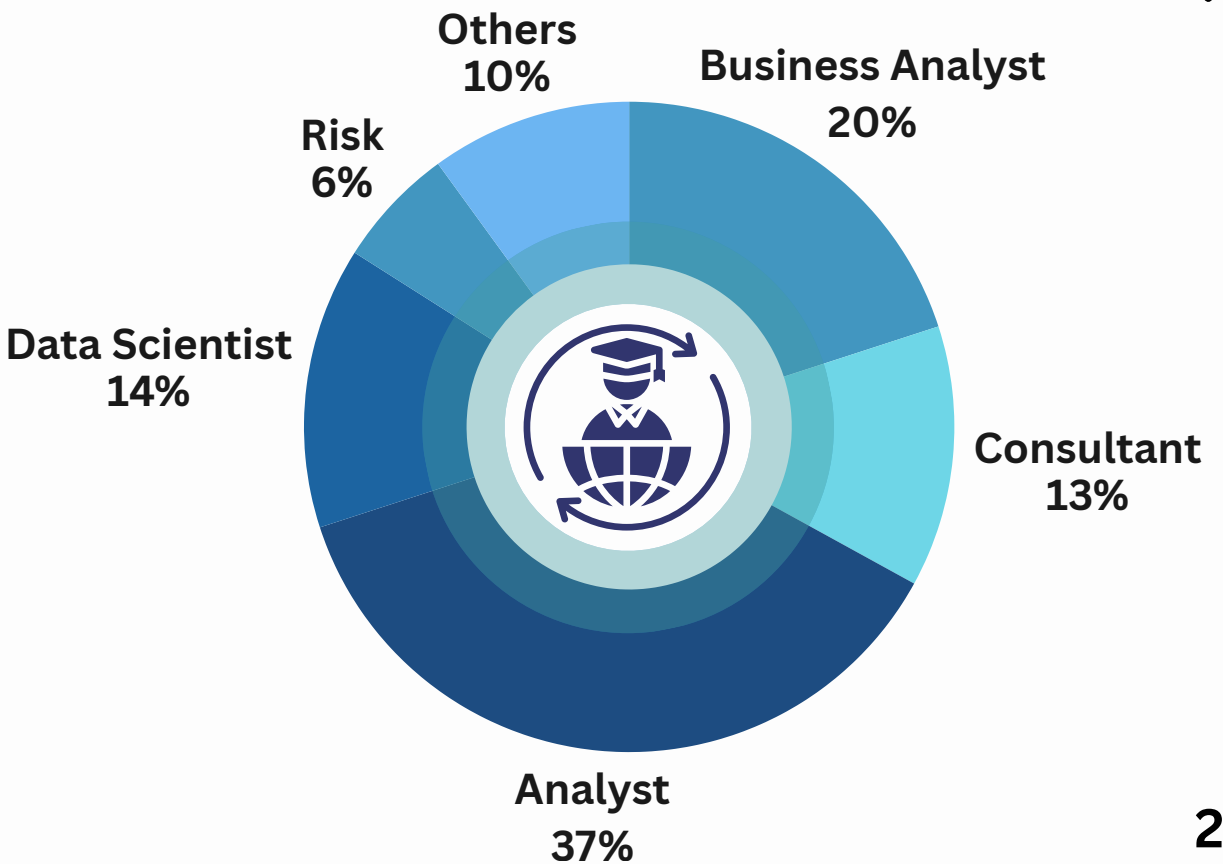
TOP 15%
₹ **15.0**
LPA

GROSS PACKAGE
₹ **5.18**
CR

Industry Wise Placement



Profiles Offered



SUMMER INTERNSHIPS

During summer vacations, our students participate in internships with reputed companies, both on and off-campus. These opportunities provide real-world experience and a glimpse into professional workspaces



PAST RECRUITERS



A Moody's Analytics Company













PAST RECRUITERS



SESSIONS CONDUCTED



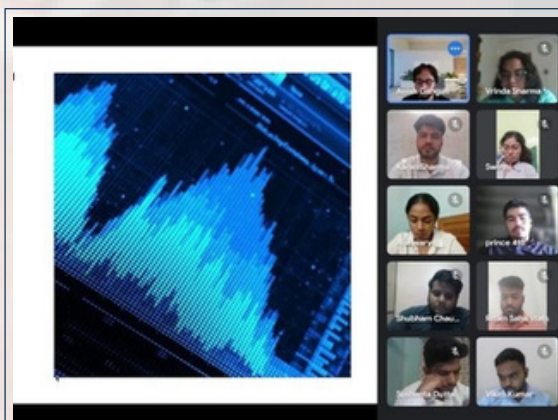
Alumni Engagement Session - on the topic “**Future Ready: Industry Insights & Interview Hacks**” by our alumni **Kanika Tayal** (Manager, Citi), batch of 2021, held on **5th April 2025**.



Alumni Engagement Session – on the topic “**Strategy Simplified: Guesstimate & Case Study**” by our alumni **Mr. Naman Jain** (Associate Solution Advisor, Deloitte), batch of 2021, held on **19th April 2025**.

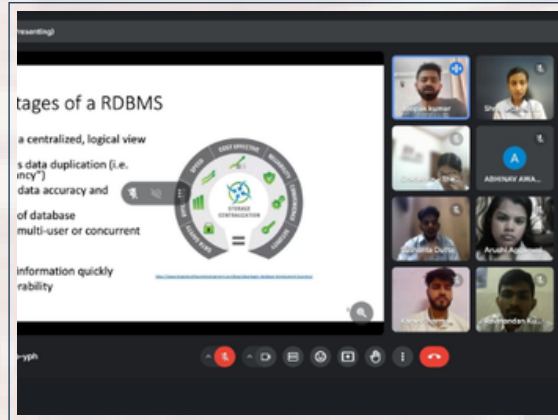


Credence collaborated with **Barclays** for a guest lecture by **Vikas Singh** and **Gaurav Gupta**, offering students key insights into the **Credit Life Cycle** and the role of statisticians in banking analytics, held on **26th April 2025**.



A highly insightful session by **Mr. Anish Ganguli**, Data Scientist at Microsoft, offering practical guidance on placement processes, interview strategies, and **real-world case applications** in data science.

SESSIONS CONDUCTED



Workshop on “**SQL: Basic to Advanced**” – on the topic “SQL: Basic to Advanced” with **Mr. Deepak Kumar Singh (Staff Machine Learning Engineer, InMobi)**



Insights from our “**Alum Connect**” series with industry leaders like **Ms. Rabia Brar (Barclays)** and **Mr. Shubham Mehta (American Express)** empower students with real-world guidance in Data Science, Business Analytics, and beyond.



Engagement Session by **Mastercard** – on the topic “**Data Science and the future of Artificial Intelligence (AI) in financial services**” by **Mr. Dinesh Lal (Director, Mastercard)**, **Mr. Charanjit Singh (Regional Campus Lead, Mastercard)**.



PHUSE India University Connect Event – in association with the Department of Mathematics, University of Delhi, on the topic “Industry-academia trends and job opportunities in the pharmaceutical and clinical research sectors” by **Mr. Gagandeep Singh Saini (Regional Membership Officer at PHUSE)**.

CONTACT US

PLACEMENT CO-ORDINATORS

NITESH YADAV

+91 8004302628

SOUJATYA MAJUMDAR

+91 7439575803

PRATIKSHA SHARMA

+91 8699544635

SOUMYAJYOTI CHAKRABORTY

+91 9903579061

RITAM BHATTCHARYA

+91 8420606565

✉ placementcell@stats.du.ac.in





DEPARTMENT OF STATISTICS
Faculty of Mathematical Sciences, University of Delhi,
Delhi - 110007

WELCOMES YOU !

