



Indian Statistical Institute Kolkata



PLACEMENT BROCHURE 2020-21



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About ISI Kolkata

- Established in 1931, Indian Statistical Institute is one of the oldest and most prestigious institutions focused on Statistics and allied disciplines such as Mathematics, CS, Economics, SQC etc.
- Founded by Professor P.C. Mahalanobis in Kolkata on 17th December, 1931, the institute gained the status of an Institution of National Importance by an act of the Indian Parliament in 1959. The Headquarters of ISI is located in Kolkata and additionally, there are four centres located in Delhi, Bangalore, Chennai and Tezpur.
- In its continual effort to achieve excellence in both postgraduate education and research work, the institute has earned an international academic reputation in the field of Statistics, Economics Computer and Allied Sciences.
- ISI Alumni have adorned Senior Leadership and Analytics roles at reputed Companies as well as distinguished faculty positions at world famous Universities. They have received numerous awards and recognition as well.
- The institute has more than 250 faculty members who are involved in novel research work and collaborations and have been honoured with the awards such as Padmashree, S.S. Bhatnagar Award etc.
- In addition to offering formal Post-graduate and Ph.D. Programs, the Institute has been involved in Continuing Education and Research & Development in areas of value to both the Industry and the Government.

Our Vision

The unique perception of nurturing Statistics as a unifying discipline, as envisioned by Professor PC Mahalanobis, and constantly enriching suitably with time and providing the basic philosophy for formulating the strategy for interlacing and encompassing newly emerging areas of research in all its scientific divisions.

Our Mission

To promote the study and dissemination of knowledge of Statistics, to develop statistical theory and methods, and their use in research and practical applications generally, with special reference to problems of planning of national development and social welfare.

To provide for, and undertake, the collection of information, investigation, projects and operational research for purpose of planning and the improvement of efficiency of management and production.

To undertake research in various fields of natural and social sciences, with a view to the mutual development of Statistics and these sciences.

To undertake any other ancillary activities in fulfillment of the objectives stated above



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Academic Programmes

The institute offers the following degree programmes at its Centres-

Undergraduate

- Bachelor of Statistics (Honours) [B Stat (Hons)]

Postgraduate

- Master of Statistics [M Stat]
- Master of Mathematics [M Math]
- Master of Science in Quantitative Economics [MS (QE)]
- Master of Technology in Computer Science [M Tech (CS)]
- Master of Technology in Cryptology and Security [M Tech (CrS)]
- Master of Technology in Quality, Reliability & Operations Research [M Tech (QROR)]

Research Programmes I

The Institute awards Ph D degrees for research in the following fields.

- Statistics
- Mathematics
- Quantitative Economics
- Computer Science
- Quality, Reliability & Operations Research (QROR)

Research Programmes II

The Institute also offers Junior Research Fellowships in several areas of the Natural Sciences and the Social Sciences.

- Physics
- Geology
- Biological Sciences

Diploma Programmes

The institute offers the following diploma programmes.

- Postgraduate Diploma in Business Analytics (jointly with IIT Kharagpur and IIM Calcutta) Kolkata (2 years)



Other Campuses

ISI Bengaluru

M.Math. (Masters in Mathematics)

M.S.QMS (M.S. in Quality
Management
Science)

M.S.LIS (M.S. in Library and
Information Science)

Placement website:

www.isibang.ac.in/~placement

Email: plcconv@isibang.ac.in

ISI Delhi

MSQE (M.S. in Quantitative
Economics)

Placement website:

www.isid.ac.in/~placement

Email: placement@isid.ac.in

ISI Tezpur

Post Graduate Diploma in
Statistical Methods and Analytics

Placement website:

<http://www.isine.ac.in/placement/placement.html>

Email: placementcell@isine.ac.in

ISI Chennai

Post Graduate Diploma in
Computer Applications

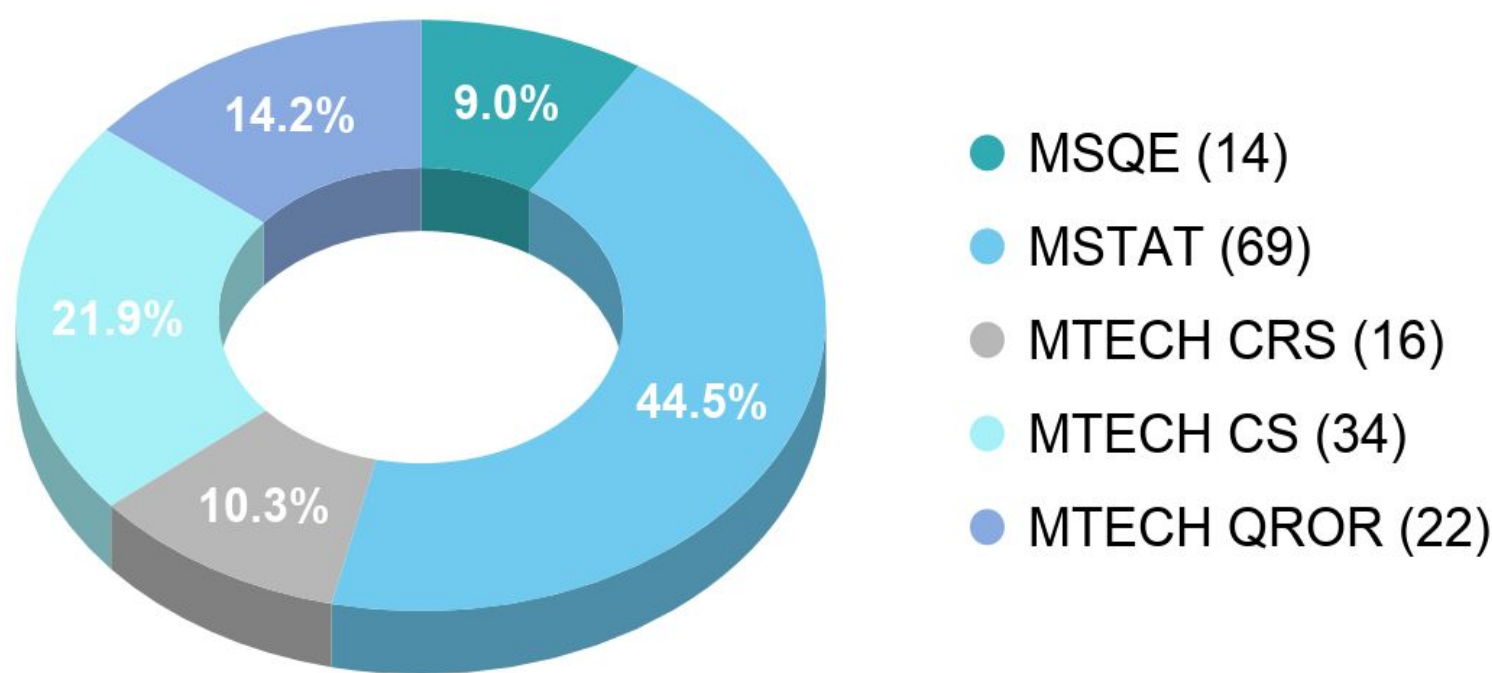
Placement website:

<https://www.isichennai.res.in/placement.php>

Email: placements@isichennai.res.in

Batch Demographics

Department-wise distribution of students



Total Batch Size : 155

Batches available for Placement and 2 months Internship

M.Tech CS
(M.Tech in
Computer
Science)

M.Stat
(Masters in
Statistics)

MSQE (M.S.
in
Quantitative
Economics)

M.Tech CRS
(M.Tech in
Cryptology
and Security)

M.Tech QROR
(M.Tech in
Quality,
Reliability and
Operations
Research)

Batches available for 6 months Internship

M.Tech CRS
(M.Tech in
Cryptology
and Security)

M.Tech QROR
(M.Tech in
Quality,
Reliability and
Operations
Research)

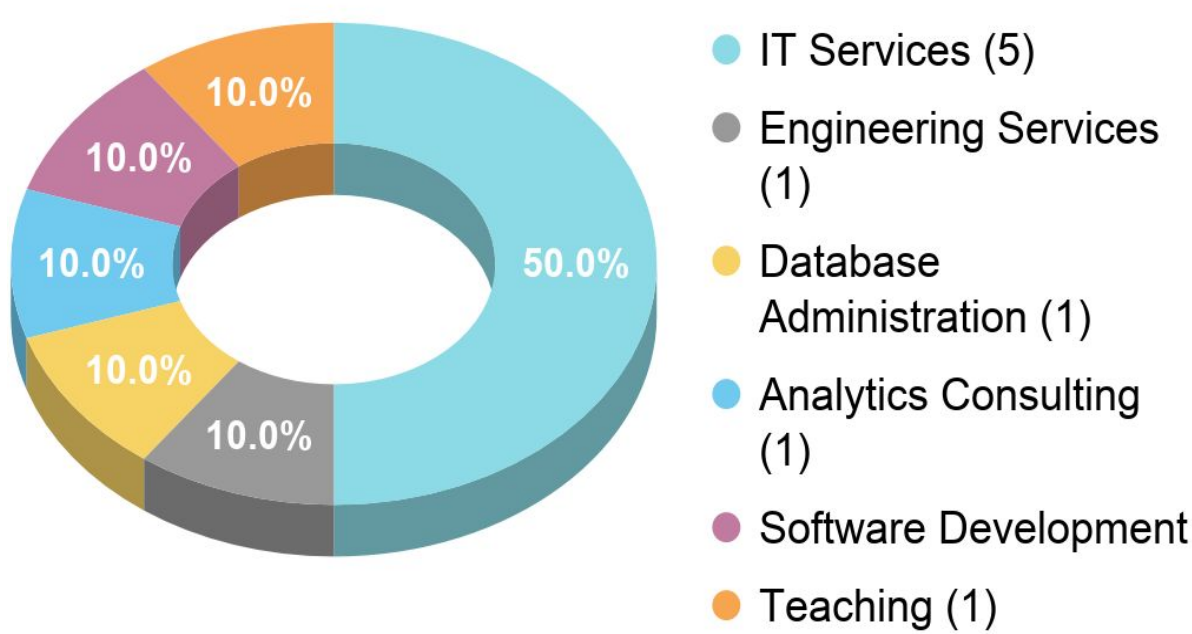
M.Tech CS

34
Batch Size

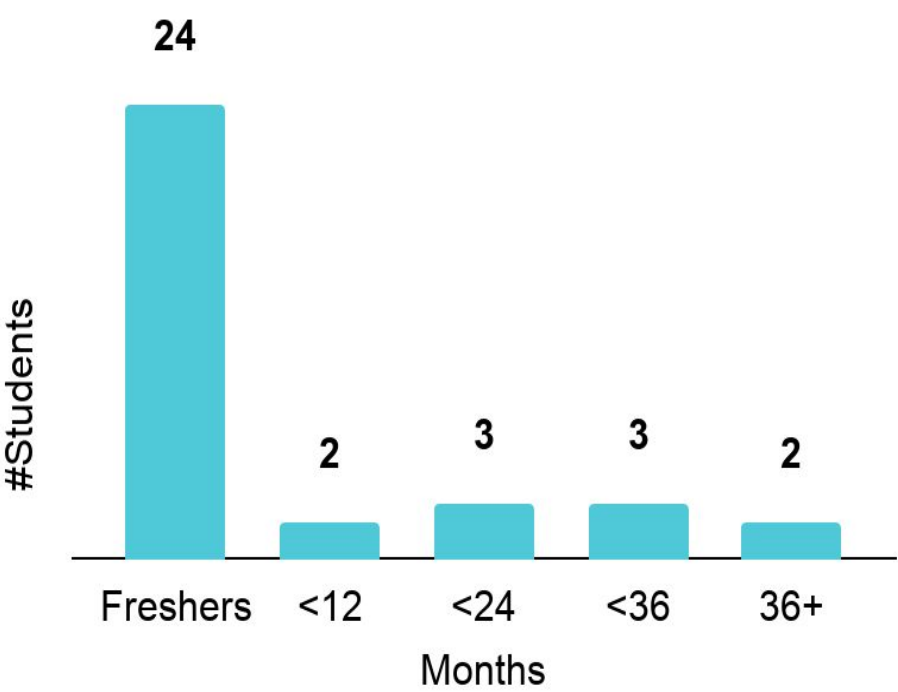
8.8+
Avg Work Exp
(in months)

30% have prior work experience
23.5% are (post)graduates from IITs and NITs

Work Exp Domains



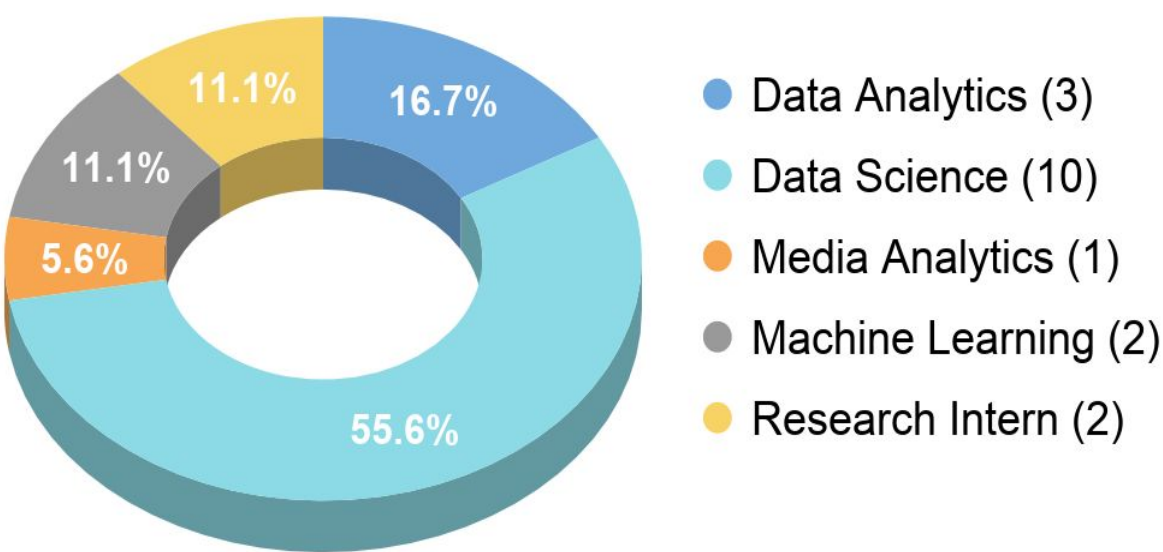
Work Exp



Area of Expertise

- Machine Learning, Deep Learning & AI
- Natural Language Processing
- Computer Vision
- Image Recognition
- Pattern Recognition
- Data Mining
- Computational Finance
- Optimization
- Statistical Computation
- Quantum Learning Theory
- Advanced Algorithms
- Distributed Systems and Big Data
- Advanced Graph & Randomised Algorithms

Internship Domains

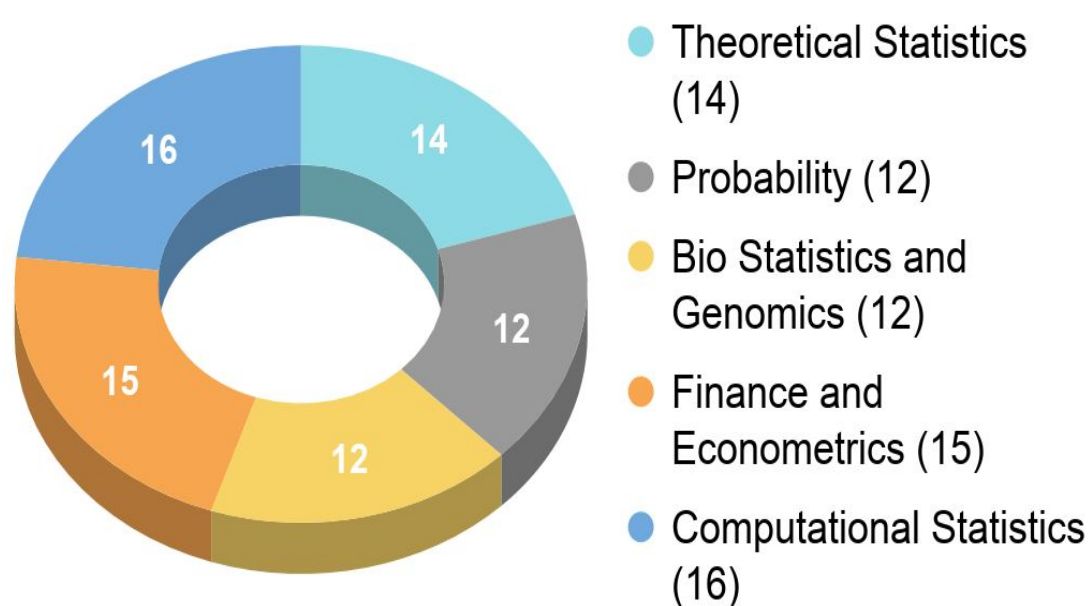


69

Batch size

- ↳ B-Stream : B.Stat from ISI Kolkata
- ↳ NB-Stream : Bachelors in Statistics & Mathematics from other colleges

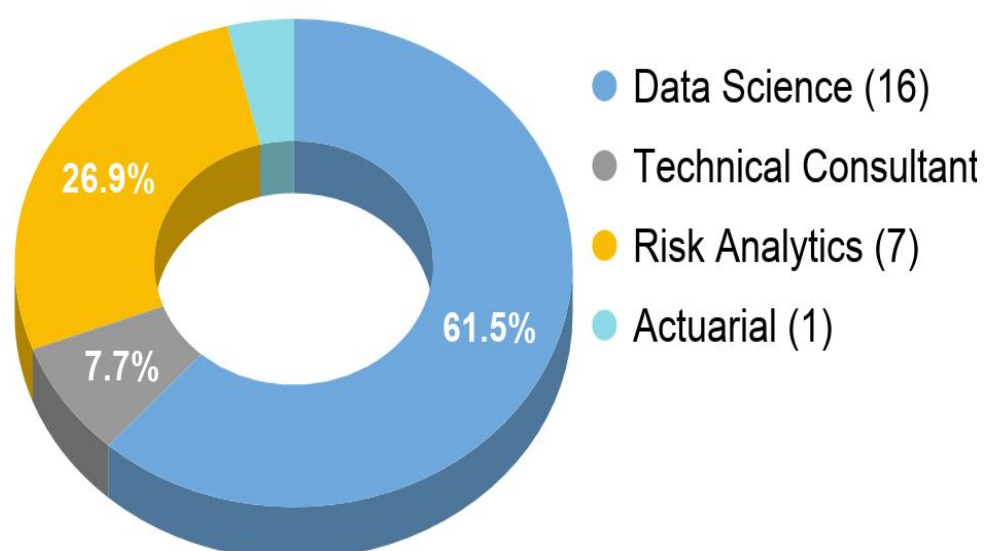
Specialization



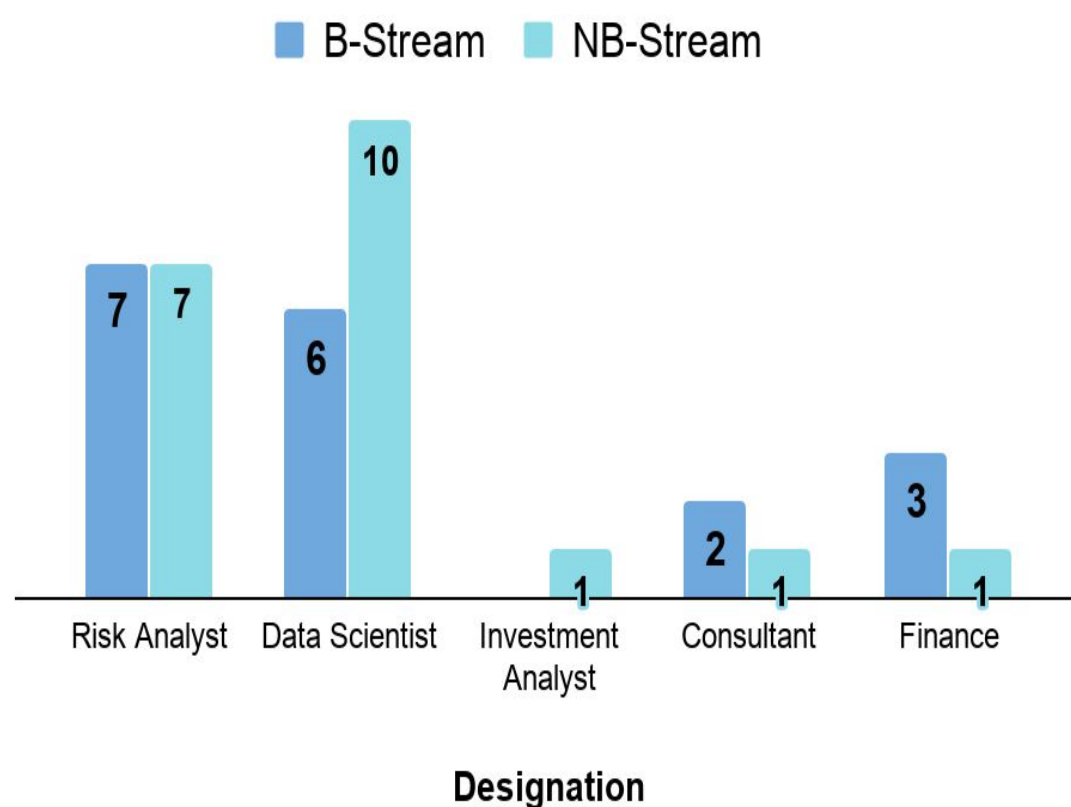
Area of Expertise

- Machine Learning, Deep Learning & AI
- Statistical Inference & Modelling
- Regression & Time Series Modelling
- Data Mining, Visualization & Optimization
- Design of Experiments
- Graph Theory
- Multivariate & High Dimensional
- Sample Surveys
- Resampling Techniques
- Big Data
- Design & Analysis of Algorithms

Internship Domains

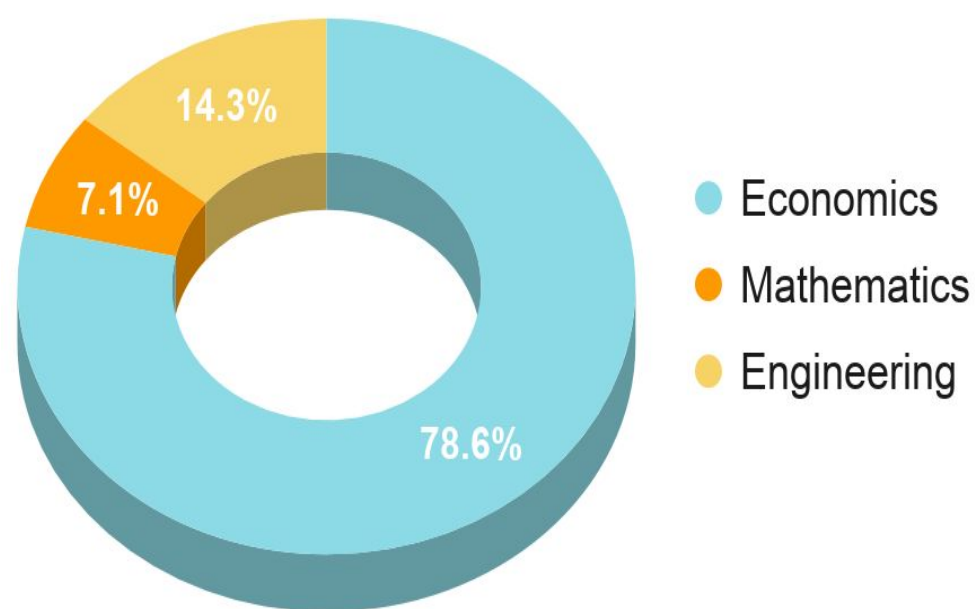


Placement Profiles (2019-20)



14
Batch size

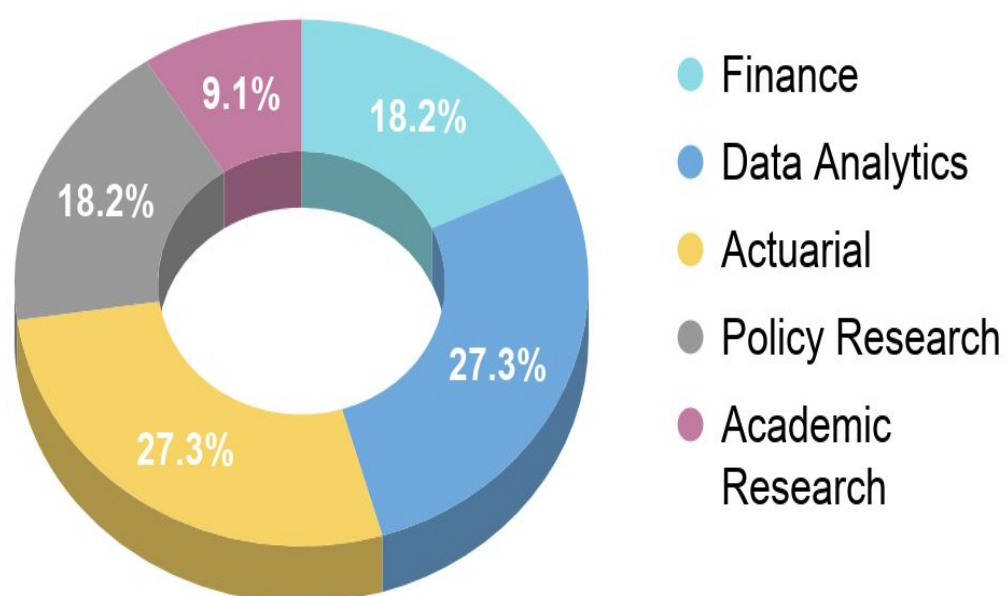
Background



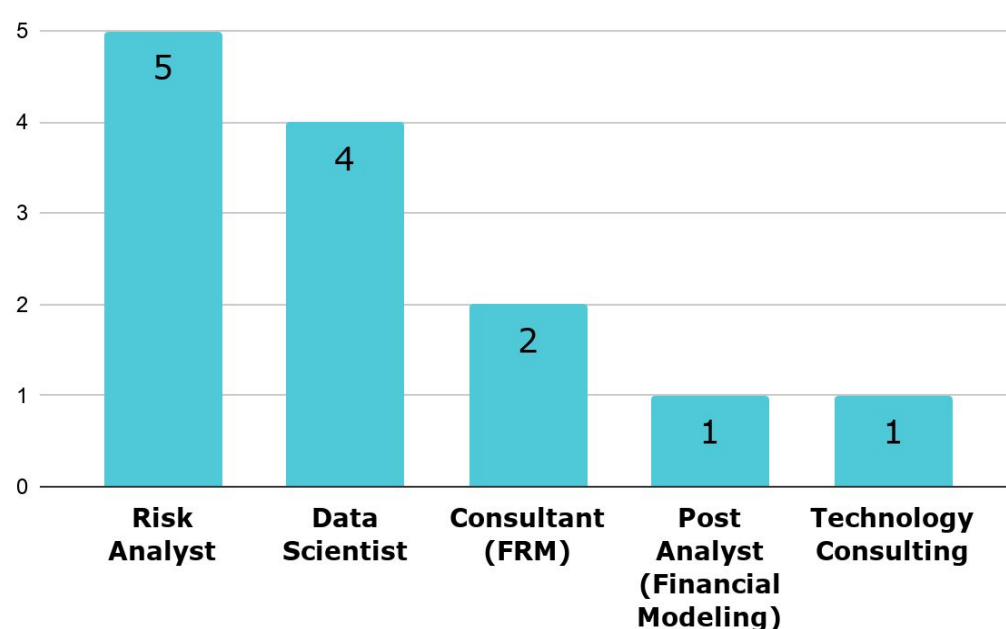
Area of Expertise

- Mathematical Finance
- Regression, Data Science & Machine Learning
- Statistical and Mathematical Modelling
- Econometrics and Time Series Analysis
- Actuarial Modelling and Valuation
- Programming, designing and analysis of algorithms
- Micro and Macro economic modelling and analysis
- Game Theory and Mechanism Design
- Sample Survey

Internship Domains



Placement Profiles (2019-20)



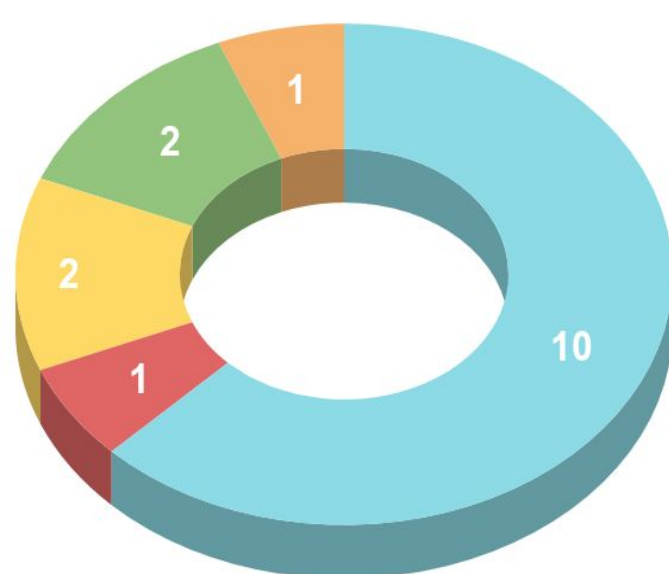
M.Tech CRS

16
Batch Size

31.25% people are
(post)Graduates from
ISI, IIT, CMI, NIT.

68.75% people
are Rank holder in
NET and/or GATE

Background

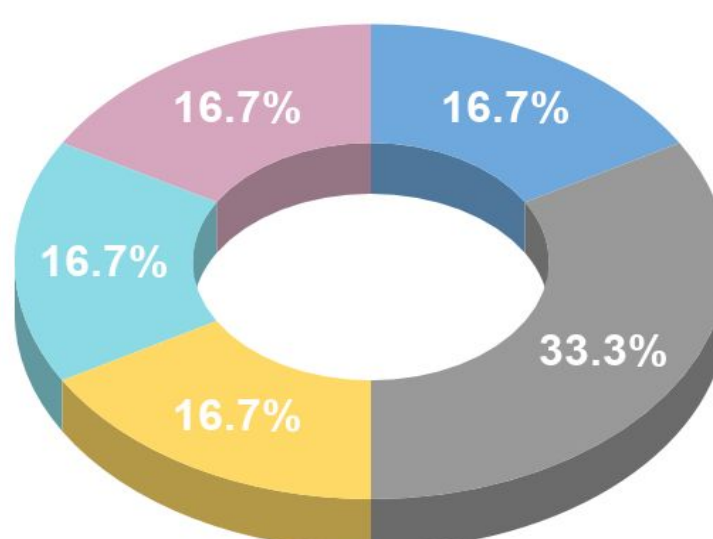


- Pure Maths
- Applied Maths
- Statistics
- Engineering
- Maths & Comp. Application

Area of Expertise

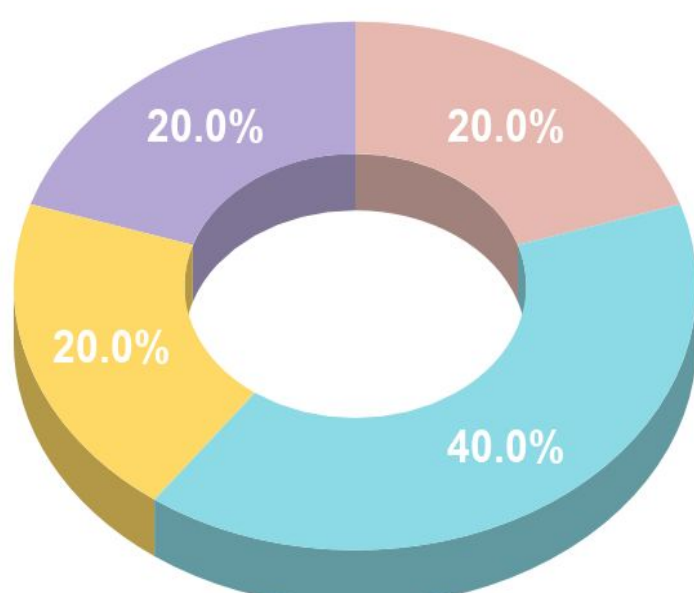
- Machine Learning and AI
- Statistical Inference
- Design & Analysis of Algorithms
- Advanced Operation Research
- Econometrics
- Multivariate Analysis
- BlockChain and Cryptocurrencies
- Machine Learning for Security
- Quantum Cryptology and Security

2019-20 Placement Profiles



- Actuarial
- Data Analyst
- Data Scientist
- Consultant
- Cryptology and ML Research Associate

Internship Domains



- Financial Research
- Data Analyst
- Optimization and Analyst
- Socio-Economic Survey

Academic Projects

- Feature Selection using ML. (Variational Autoencoder)
- Entropy Analysis - Biometric Key Generation System
- Searchable Symmetric Encryption
- Implementation and attack on A5/1 stream cipher
- Quantum computation

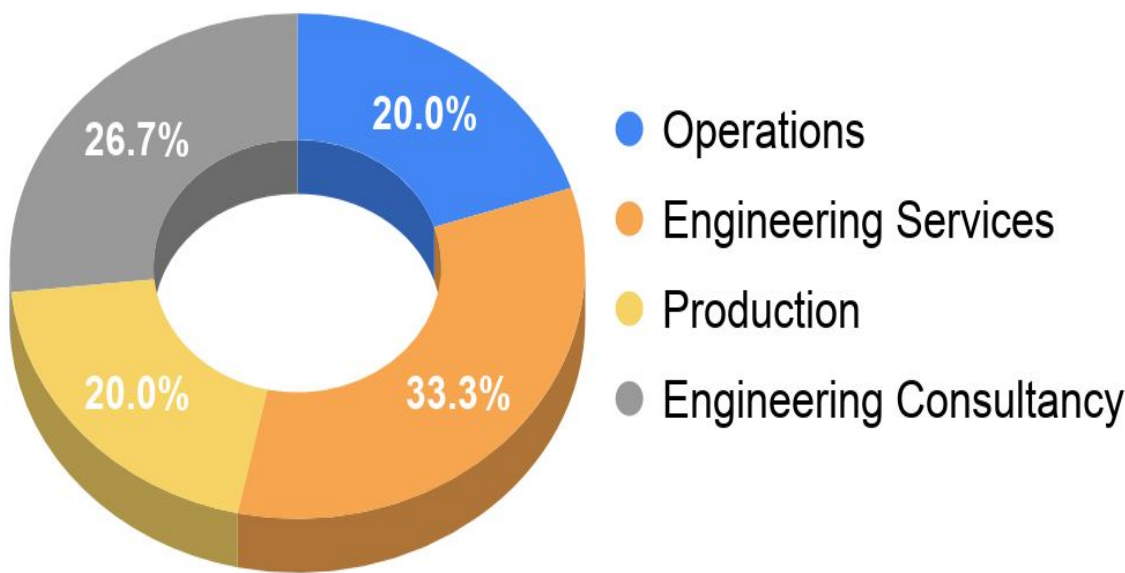
M.Tech QROR

22
Batch Size

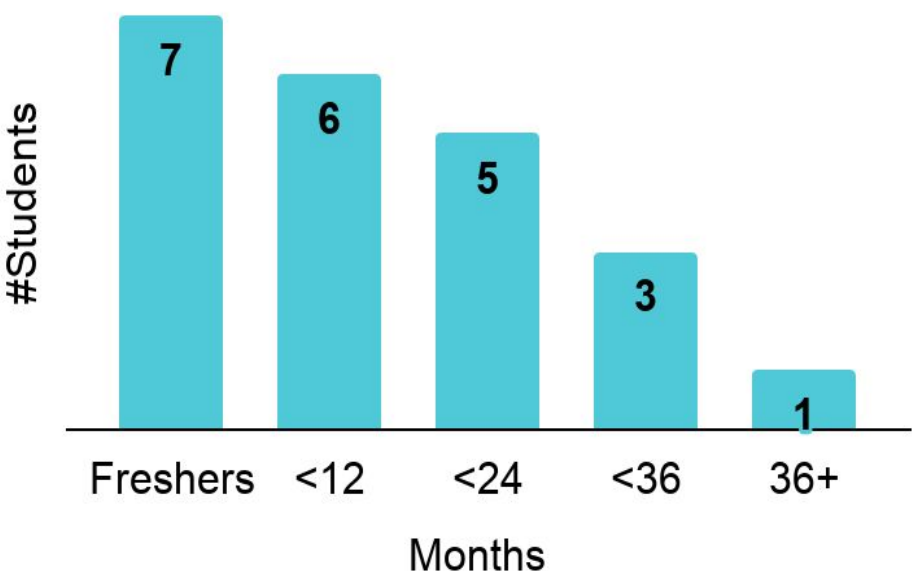
12+
Avg Work Exp
(in months)

68% have prior work experience

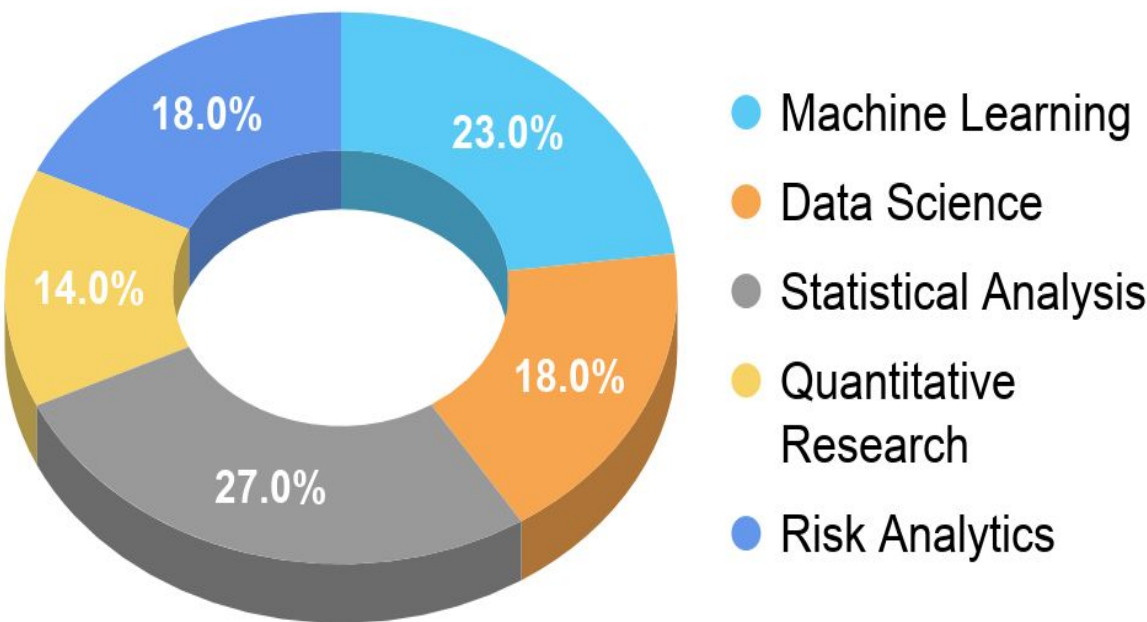
Work Exp Domains



Work Exp



Internship Domains



Area of Expertise

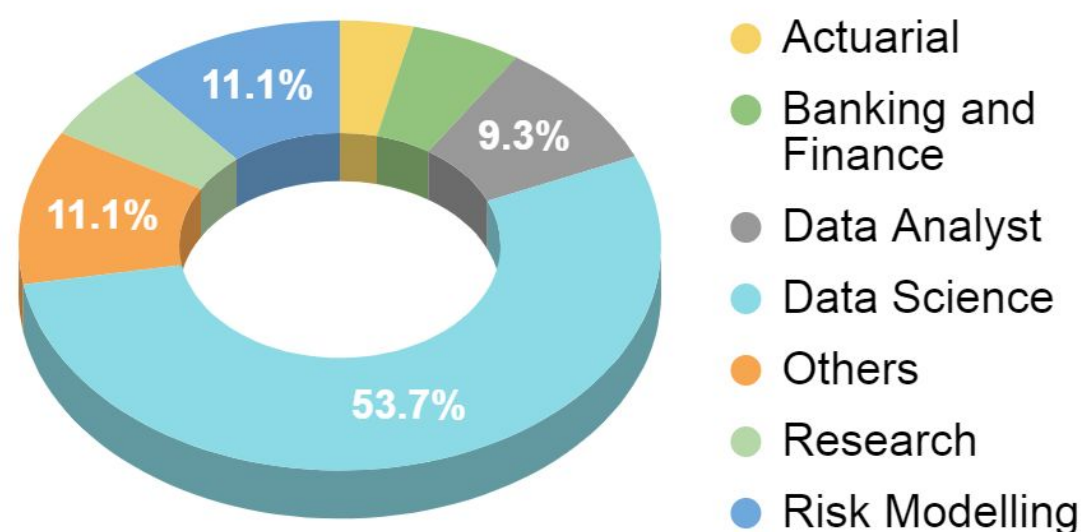
- Machine Learning and AI
- Statistics and Data Science
- Business and Market Analytics
- Applied Multivariate Analysis
- Statistical Inference
- Operations Research
- Non-Linear Optimisation
- Time Series Analysis

Placement Policies

- The companies are required to mail us the filled up Campus Recruitment Form (CRF) at [plccom \[at\] isical.ac.in](mailto:plccom@isical.ac.in) (Form is available at our website www.isical.ac.in/~placement/).
- Due to COVID-19, we'll be conducting the entire placement process virtually, online video calls will primarily be used to connect with students for pre-placement talks and interviews.
- The job role(s) and exact salary details must be mentioned. If any range is mentioned, we will consider the lower limit as the salary committed by the company.
- The companies will be called for placements in different slots. We allocate the slots based on the salary and interest of the students.
- Each placement slot will span over a few days in a week and in any given slot there may be multiple companies interviewing the available pool of students.
- Student shortlisted by the company will be allowed to proceed with the interview process only if (s)he belongs to the available pool.
- The company must declare the offer(s) before the end of the slot.
- The salary should also be re-confirmed at the time of making the offer to any student and it should not be less than the salary committed before.
- If a student gets one or more jobs in a slot, (s)he will have to choose one and (s)he will not be allowed to appear for any interviews in the subsequent slots.
- In case of any special conditions, like fixed time bond, these must be specifically mentioned in the Campus Recruitment Form.
- Student, who has received and accepted any offer through the placement committee, will be allowed to appear only for companies offering at least additional 4 lakhs to the highest paid offer or 1.3 times the highest paid offer, where the highest paid offer is considered to be the one with maximum fixed pay and guaranteed allowances.

Internship Statistics 2019-20

Internship Domains

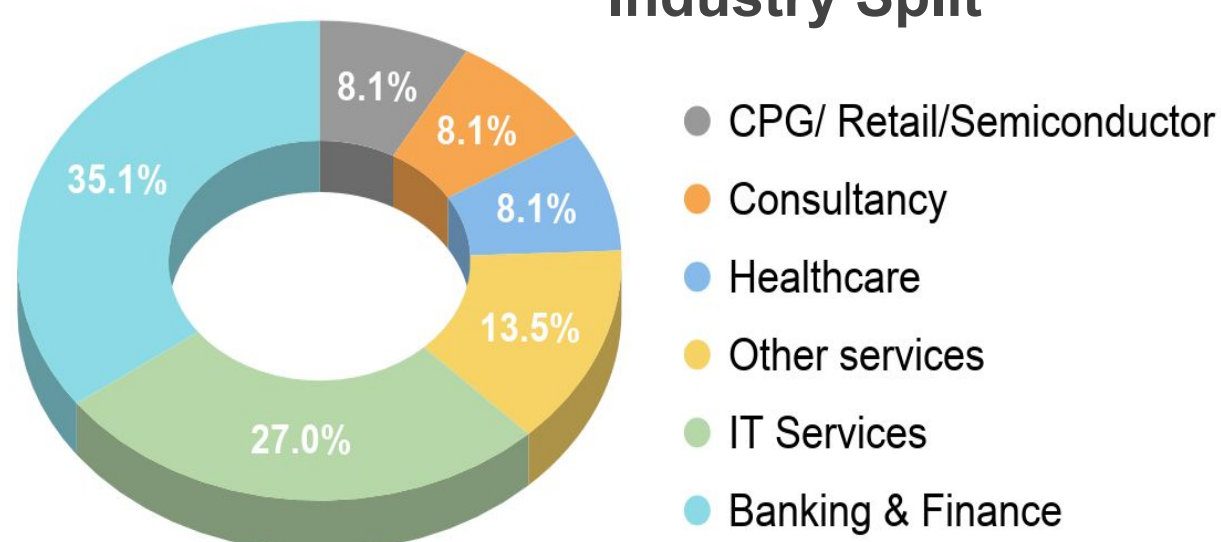


Stipend	INR (Monthly)
Highest	1.2 lacs
Average	70 K
Median	65 K

26+ Pre-Placement Offers

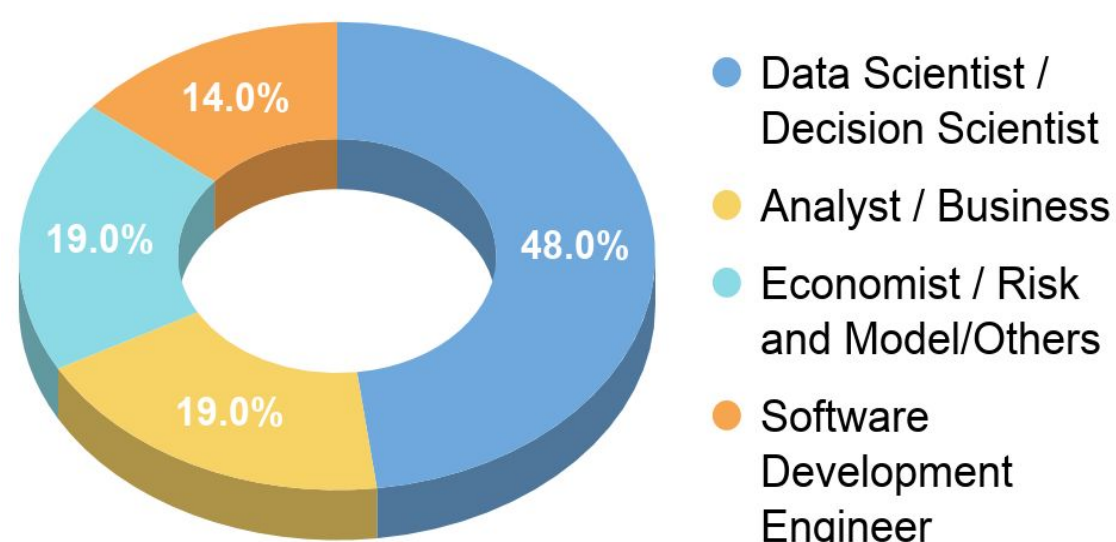
Placement Statistics 2019-20

Industry Split



CTC	INR
Highest	31.5 LPA
Average	19.2 LPA
Median	18.5 LPA

Roles Offered



Past Recruiters

JPMORGAN
CHASE & CO.

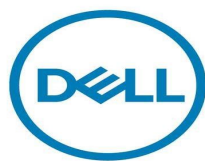
alphonso
The TV Data Company

Microsoft

Goldman
Sachs



Google



Linked in



OPTUM

Morgan Stanley

citi

Flipkart



Zendrive

pwc

DE Shaw & Co



publicis
sapient



UBS

BlackRock



Walmart Labs



KPMG



Deloitte

accenture

nference



ICICI Bank

OYO

SAMSUNG

COMCAST

CRISIL
An S&P Global Company

groupm



Reliance
Industries Limited
Growth is Life

TATA AIA
LIFE INSURANCE



EMPLAY



Placement Committee

Heads

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Dean of Studies
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Dr. Diganta Mukherjee
Placement Convenor
(033) 2575 2019

Dr. Ashis Chakraborty
Placement Chairman
(033) 2575 3361

Faculty Representatives

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SQC and OR

Dr. Sushmita Ruj
CSRU

Dr. Debapriyo Majumdar
CVPR

Dr. Sourav Chakraborty
ACMU

Dr. Arijit Ghosh
ACMU

Dr. Anisur Rahaman Molla
CSRU

Student Representatives

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