

**Ramakrishna Mission Vivekananda Educational
and Research Institute**
Deemed-to-be-University



Placement Brochure

M.Sc. in
Big Data Analytics & Computer Science

2025-26

TABLE OF CONTENTS

No	Content Title	Page
1	About RKMVERI, Mission & Vision	1
2	Message from Vice Chancellor's desk, Message from Head's desk	2
3	Faculty List	3
4	Coursework - BDA, CS	4
5	Batch Demographic	6
6	Ongoing Projects	7
7	Placement Statistics	8
8	Past Recruits	10
9	Doctoral Pursuits	11
10	Alumni Testimonials	12
12	Contact Us	15

ABOUT RKMVERI



RKMVERI received NAAC accreditation with A++ grade, scoring 3.66/4 CGPA, declared on 28 March 2019.



RKMVERI was declared a deemed-to-be university by MHRD, Government of India, through a gazette notification on 5 January 2005.

Swami Vivekananda believed education should be transformative, focusing on character-building rather than mere information. He envisioned a system combining India's spiritual wisdom with Western scientific knowledge. Through the Ramakrishna Math, he promoted this vision and inspired initiatives like the Indian Institute of Science. The Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI) was established to realize his ideals by offering value-based, holistic education that integrates moral strength, spiritual insight, and scientific excellence for individual and societal growth.

MISSION & VISION

Vision: To be a premier centre of learning that blends natural and humanistic sciences, harmonizing ancient Indian wisdom with modern scientific and technological excellence, and imparting life-building, character-making education to youth for their personal growth and the greater good, as envisioned by Swami Vivekananda.

Mission:

- **Pursuit of Excellence** To strive for excellence in teaching, research and all academic endeavors
- **Blending of Eastern and Western values** To integrate Indian values like Shraddha, truth, and selflessness with modern ideals like scientific temper and integrity, nurturing youth with harmonious development of heart, head, and hand through yoga.
- **Social responsibility** To train and educate the youth to become socially responsible citizens to collectively rebuild a rejuvenated, glorious India by first of all building an impeccable, lofty character at the individual level.



MESSAGE FORM VICE CHANCELLOR'S DESK

“

Arise , awake and stop not till the goal is reached.
- Swami Vivekananda

RKMVERI follows in the footsteps of Swami Vivekananda to realize the vision of “**Man-making, character-building education.**”

RKMVERI follows in the footsteps of Swami Vivekananda to realize the vision of “Man-making, character-building education.” As a deemed university under the philanthropic and charitable Ramakrishna Math and Mission organization, it upholds a proud tradition of nurturing researchers, teachers, and professionals who embody personal integrity, perseverance, and team spirit, while consistently striving for excellence and perfection.

The Computer Science and Data Science streams remain at the forefront of modern educational trends, placing strong emphasis on building a solid technical foundation.

I extend my best wishes to our students, wherever they may be, and hope they become leaders, pioneers, and entrepreneurs — or efficient, empathetic, and loyal coworkers — who uphold and exemplify the highest humanitarian values.

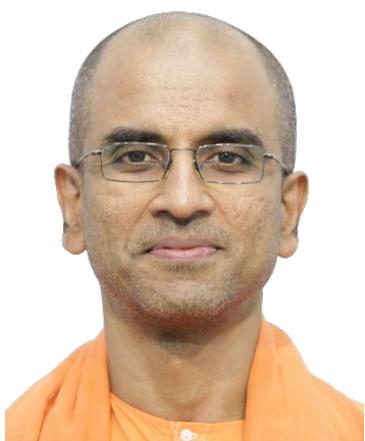


MESSAGE FORM HEAD'S DESK

“

Take up one idea. Make that one idea your life – think of it, dream of it, live on that idea. Let the brain, muscles, nerves, every part of your body be full of that idea, and just leave every other idea alone.

This is the way to success.
- Swami Vivekananda



This profound statement from Swami Vivekananda encapsulates the spirit of focus and dedication that drives our department. We believe that in-depth expertise and unwavering commitment are essential for achieving outstanding results in both academia and industry.

We nurture a learning environment that promotes creativity, critical thinking, and a lifelong quest for knowledge. Our curriculum is carefully crafted to equip students with the skills and insights needed to address real-world challenges and engineer innovative solutions.

By fostering a culture of deep learning and focused research, we empower our students to emerge as experts in their domain and make meaningful contributions to the fields of Computer and Data Science. Let us move forward together, pursuing excellence with steadfast determination.

FACULTY LIST



Swami Sarvottamananda

Professor & Vice Chancellor, RKMVERI
PhD (1995): IIT, Kanpur, India

Research Area

Computational Geometry, Design of Algorithms, Combinatorial Optimization, Complexity Theory, Center-points, Intersection Radii.



Swami Punyeshwarananda

Assistant Professor & HOD
PhD (2012): University of Queensland, Australia

Research Area

Machine learning, Computer Vision, Natural Language Processing, Embedded Systems



Dr. Subir Kumar Ghosh

Professor (Ramanujam Professor, NBHM)
PhD (1987): TIFR, Mumbai, India

Research Area

Computational Geometry and Applications, Robot Motion Planning, Geometric Graph Theory and Applications, Discrete Mathematics



Swami Shastravidyananda

Assistant Professor & COE
Master of Engineering (2003): Jadavpur University, West Bengal, India

Research Area

Algorithm Design and Analysis



Br. Tamal

Assistant Professor
PhD (2016): University at Buffalo, Buffalo, NY, USA

Research Area

Artificial Intelligence, Machine Learning, Decision Theory, Database Systems, Networking, Computer Security



Dr. Joydeep Mukherjee

Assistant Professor
PhD: Institute of Mathematical Sciences, Chennai, India

Research Area

Graph Theory, String Graphs, Computational Geometry



Dr. Soumitra Samanta

Assistant Professor
PhD (2016): Indian Statistical Institute, Kolkata, India

Research Area

Data Science, Machine Learning, Computer Vision and Chem-informatics



Dr. Sudipta Das

Assistant Professor
PhD: Indian Institute of Science, Bangalore, India

Research Area

Reliability, Stochastic Processes, Data Analytics, Real Time Systems



Champak Kumar Dutta

Teaching And Research Assistant
M.Tech. CS: Indian Statistical Institute, Kolkata, India

COURSEWORK - BIG DATA ANALYTICS

SEMESTER 01

- Statistics
- Probability & Stochastic Process
- Linear Algebra & Matrix Computation / NPTEL Electives
- Data Structures and Algorithms
- Machine Learning
- Java and Hadoop
- Universal Human Values

SEMESTER 02

- Advance Statistics
- Deep Learning and NLP
- Time Series and Survival Analysis
- Topics in Graph Algorithms / Distributed Computing and Graph Databases
- Computer Vision / Applied Statistics /Applied Machine Learning
- Communicative English
- Indian Knowledge System

SEMESTER 03

- Database Management System
- Artificial Intelligence / Reinforcement Learning
- Econometrics & Finance
- Multivariate Statistics
- Term Project

- Graph Machine Learning
- Thesis
- Research/Industrial Internship
- NPTEL course

SEMESTER 04

COURSEWORK - COMPUTER SCIENCE

**SEMESTER
01**

- Design and Analysis of Algorithms
- Theory of Computation
- Statistics
- Linear Algebra & Matrix Computation
- Probability and Stochastic Processes
- Machine Learning
- Universal Human Values

**SEMESTER
02**

- Topics in Spectral Graph Theory
- Computational Complexity
- Advanced Algorithms
- Blockchain, LLM, IoT
- Computer Vision / Deep Learning
- Communicative English
- Indian Knowledge System

**SEMESTER
03**

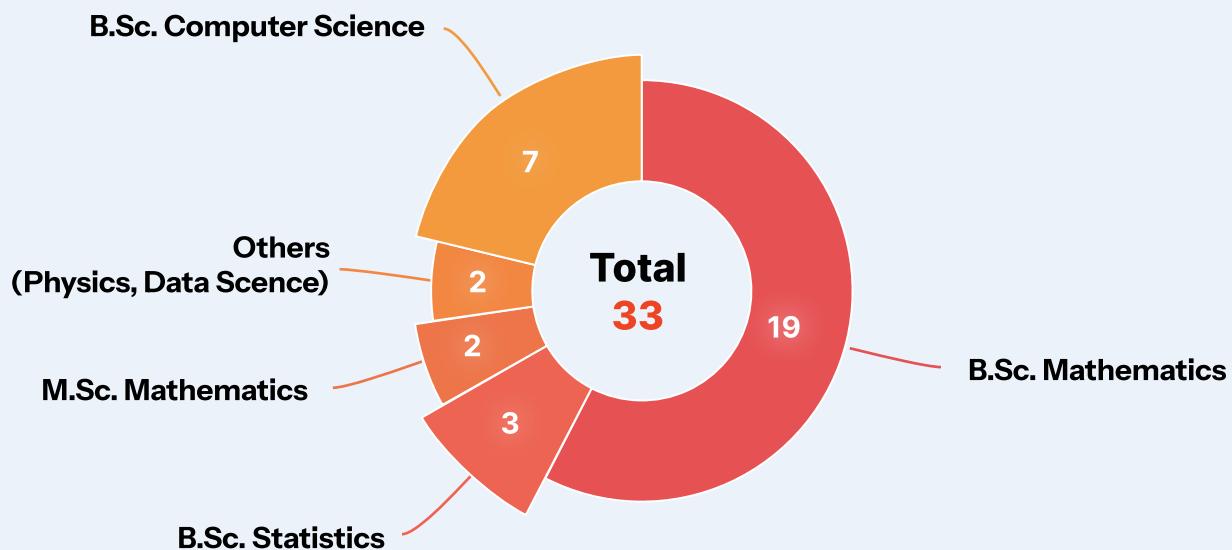
- Advanced LLM & Cybersecurity
- Reinforcement Learning
- Database Management Systems
- Mining of Massive Dataset
- Randomized and Approximation Algorithms
- Computational Geometry
- Term Project

**SEMESTER
04**

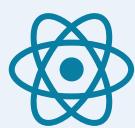
- Graph Machine Learning
- Thesis
- Research/Industrial Internship
- NPTEL course

BATCH DEMOGRAPHIC

Academic Background



Technical Skills



LangGraph

LangChain



ONGOING PROJECTS

1. Natural Language Processing (NLP)

- **Lekhani:** A Transformer-Based Approach for Bengali Speech to Text Transcription
- **ShrutiGPT:** A Transformer-Based Approach for Sanskrit Speech Recognition
- End to End Text to Speech Transformation for Sanskrit using VITS
- End to End from Newspaper Article Snap to Summarization in Speech
- Enhancing Text Generation with Graph-Driven Retrieval-Augmented Generation
- LLM Based Time Table Generation

2. Computer Vision

- Audio-Visual Expression Generation from Text/Image
- Distinguishing AI-Generated Images from Human-Created Images Using Variational
- Autoencoders
- Indian Sign Language Recognition into Continuous Text
- Video Moment Retrieval Using Query-Specific Visual Features
- Multimodal Sentiment Analysis with 3D Talking Head Generation

3. Security and Adversarial Research

- Adversarial Attacks on Aligned LLMs
- Enhancing LLM Security: Layer-Specific Knowledge Editing for Jailbreak Defense
- and Detoxification

4. Graph-Based Analysis

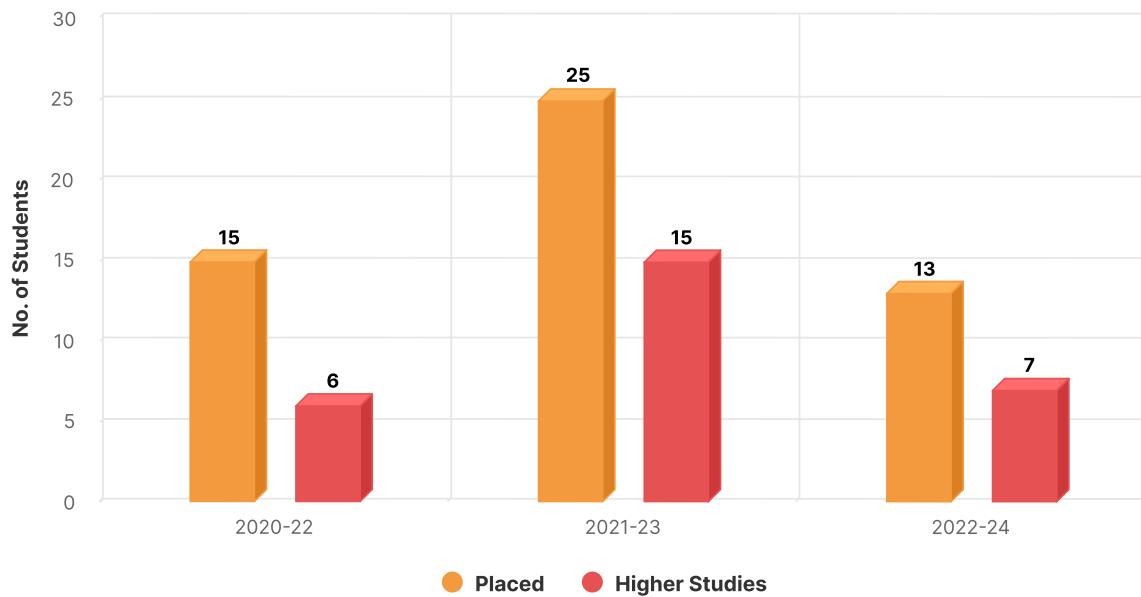
- Social Network Analysis: A Graph-Based Approach
- Graph Neural Retrieval for Large Language Modeling Reasoning

5. Code and Data Analysis

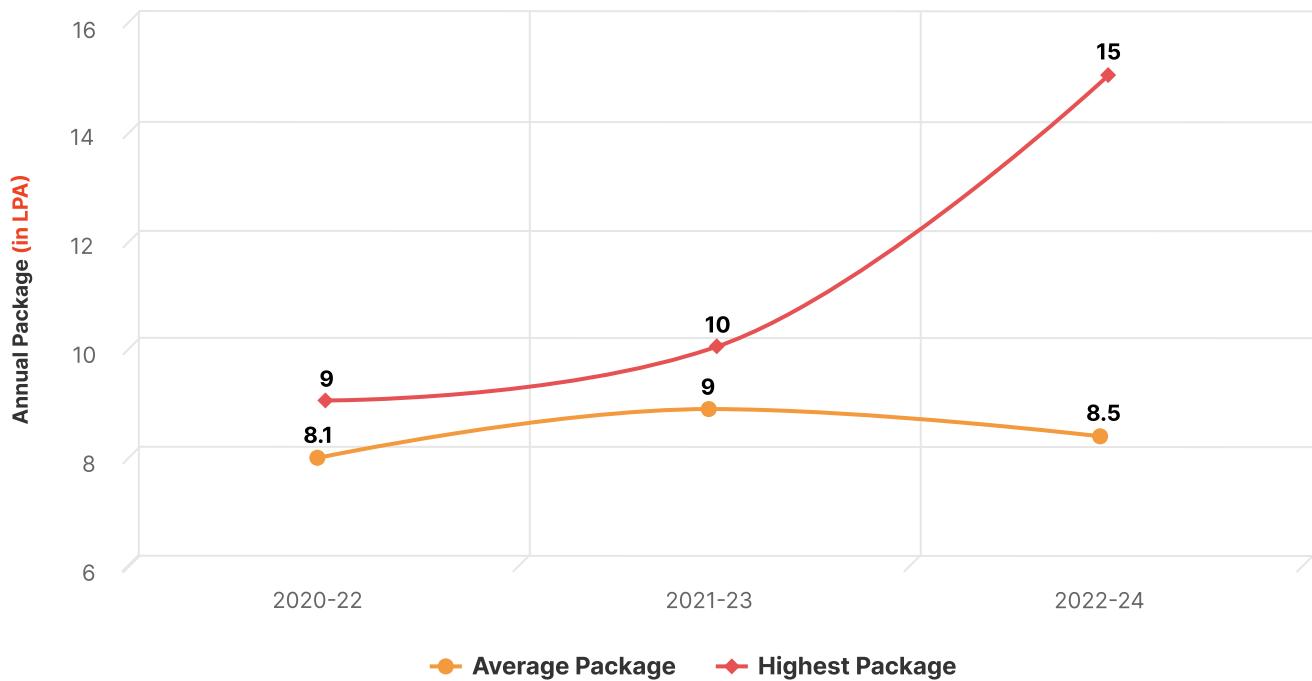
- Code Clone Detection and Code Summarization
- LLM on Structured Data
- Handwriting Recognition

PLACEMENT STATISTICS

Batch Statistics



Package Statistics



PLACEMENT STATISTICS cont.

Industrial Internship Status of Batch 2023-2025

The **current batch (2023-2025)** is presently engaged in their final semester internships. Placement activities are yet to be concluded. The stipends for the ongoing internships stands at:

Average Stipend

₹20,000

Median Stipend

₹25,000

They were offered profiles like:

- **Data Engineer**
- **Risk Analyst**
- **Software Engineer**
- **Data Analyst**
- **Associate Consultant**
- **Business Analyst**
- **ML Engineer**
- **Data Scientists**
- **Backend Engineer**

Their areas of expertise include:

- Econometrics Modelling
- Time Series Forecasting
- Web Development
- NLP
- Data Analysis
- Prompt Engineering
- AI/ML Engineering
- Computer Vision
- Finance and Control
- Data Mining

Summer Internship Status of Batch 2024-2026

The students of **current batch (2024-26)** has secured summer internship opportunities in:



IIITDM
KANCHEEPURAM



International
Institute of Information
Technology Bangalore



भारतीय प्रौद्योगिकी संस्थान खड़गपुर
INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR



आरतीय प्रौद्योगिकी संस्थान पटना
Indian Institute of Technology Patna



Indian Association for the Cultivation of Science
(Deemed to be University under *de novo* category under
Section 3 of the University Grants Commission (UGC) Act,
1956; vide Gazette Notification No. F.9-7/2017-U.3 (A) of
the Central Government)



Indian Institute of Technology
Guwahati

INTERNATIONAL INSTITUTE
OF INFORMATION TECHNOLOGY
HYDERABAD



INDIAN INSTITUTE OF
TECHNOLOGY, ROPAR

IEST, Shibpur
आई आई ई एस टि, शिवपुर
Erstwhile B E College (Estd 1856)

PAST RECRUITERS



Shape the future
with confidence

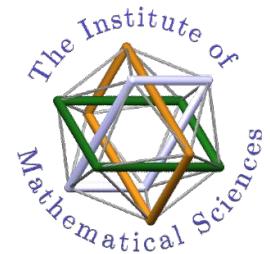
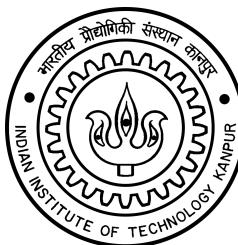


GHAR BANEGA, TOH DESH BANEGA.



DOCTORAL PURSUITS

Indian Institutes



भारतीय नोंकेंटिक विज्ञान संस्था पूर्व
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

tcg crest

Inventing Harmonious Future



INTERNATIONAL INSTITUTE OF
INFORMATION TECHNOLOGY
HYDERABAD



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI

Foreign Institutes



جامعة الملك عبد الله
للعلوم والتكنولوجيا
King Abdullah University of
Science and Technology

ALUMNI TESTIMONIALS

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RKMVERI's Computer Science department was instrumental in shaping me into the tech professional I am today. The rigorous curriculum, coupled with a supportive faculty, created an environment that encouraged both academic excellence and holistic development. The hands-on projects and collaborations provided invaluable practical experience. Beyond academics, the vibrant campus life and opportunities to participate in spiritual activities fostered a well-rounded personality. My journey at RKMVERI was more than just acquiring technical skills; it was a transformative experience that equipped me with the confidence and competence to excel in the competitive tech industry. I am eternally grateful for the foundation laid by RKMVERI.

Sayantan Paul

Lead Data Scientist, Jio Cinema

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I was never a top student. I didn't qualify for my joint examinations, and my scores in the 10th and 12th board exams were far from impressive. Despite this, my teachers always told me that I wasn't reaching my full potential, and that my average academic performance was due to a lack of commitment on my part. It wasn't until I joined RKMVERI that I discovered the true joy of learning where I realized that even someone with a mediocre academic history could excel by applying themselves. A piece of advice from my mentor, Mrinmay Maharaj, has stayed with me: "We do not expect exceptional merit, but honest effort." This perfectly captures the spirit of RKMVERI. Here, if you're willing to work hard and dedicate yourself, the instructors will do everything they can to support and guide you. When I decided to join RKMVERI, some of my friends from my undergraduate days were sceptical, especially because we didn't have an established placement cell at the time. But now, three years after graduating and having secured a successful R&D position at Netomi, I can confidently say that if you apply yourself and listen to your mentors, the knowledge you gain here will more than prepare you for any future you envision.

Ayan Gangopadhyay

Data Scientist, Neotomi

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ALUMNI TESTIMONIALS

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Choosing to pursue my master's at RKMVERI, after leaving my job was one of the most challenging yet rewarding decisions of my life. The institution offered more than just academic excellence; it provided a unique blend of spiritual growth and holistic personality development. RKMVERI's nurturing environment and values based education have not only deepened my knowledge but also shaped me into a more grounded and resilient individual. This experience has truly been transformative, preparing me for both professional and personal challenges ahead. This journey can't be expressed in words and it is something that has to be experienced.

Rajat Gaur

Data Scientist, EY

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In 2019, I embarked on my academic journey at RKMVERI as an MSc Computer Science student, where I was privileged to be guided by distinguished researchers who saw potential in me. The robust academic environment at RKMVERI provided me with the foundational knowledge that now underpins my research. The monastic faculty members, transcending their core specializations, mentored me with unwavering dedication, leading to multiple publications during my Masters. My time at RKMVERI instilled in me a profound realization: success is not predicated on innate talent but on perseverance, meticulous planning, and a relentless pursuit of one's goals. This institution stands apart for its emphasis on addressing contemporary societal challenges through practical, cutting-edge solutions rather than adhering to obsolete curricula. Moreover, RKMVERI fosters not only academic rigor but also the holistic development of individuals, shaping them into compassionate and ethical human beings.

Jimut Bahan Pal

PhD Student, IIT Bombay

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ALUMNI TESTIMONIALS

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I had the privilege of pursuing my M.Sc in Big Data Analytics at RKMVERI, Belur from 2020 to 2022. The comprehensive and rigorous academic curriculum provided me with a solid theoretical foundation in data science, while the numerous projects and coursework allowed me to apply this knowledge to real-world problems. RKMVERI's support, including access to ample technical resources, greatly enriched my learning experience and facilitated my growth in the field. Through the campus placement at RKMVERI, I had the opportunity to work as a data scientist at Abzooba (now UST), where I was able to further hone the skills I had developed during my studies. The training I received not only prepared me to take on mentorship roles in the industry but also laid the groundwork for my academic journey, ultimately leading to my acceptance into the PhD program at the National University of Singapore. I am deeply grateful to RKMVERI for shaping my career and academic aspirations.

Pratik Karmakar

PhD Student, National University of Singapore

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Contact Us

Reach out to our Placement Cell or department
for more information

Placement Cell

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Head of the Department

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Br. Bhaswarachaitanya (Tamal Maharaj)

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