D Y PATIL DEEMED TO BE UNIVERSITY
SCHOOL OF BIOTECHNOLOGY & BIOINFORMATICS
NAVI MUMBAI

BRAASK EDUCATION PVT LTD
CHANGE IS THE ONLY CONSTANT
TechMedBuddy

PG DIPLOMA IN AI FOR MEDICAL INFORMATICS

NEP 2020 UNIFIED PROGRAMME



OFFERED BY
School of Biotechnology & Bioinformatics
D. Y. Patil Deemed to be University, Navi Mumbai

IN ACADEMIC COLLABORATION WITH
BRAASK Education Pvt. Ltd. **(TechMedBuddy)**



AI-POWERED CURRICULUM
Industry-relevant skills for the future of healthcare.

ONLINE LEARNING
Flexible, interactive and self-paced learning.

PROJECT-BASED APPROACH
Real-world projects to build practical expertise.

CAREER-FOCUSED
Prepare for high-demand roles in the evolving healthcare industry.

12-MONTH
COMPREHENSIVE PROGRAMME

GRADE 'A ++'
ACCREDITED BY NAAC

UGC RECOGNIZED
ज्ञान-विज्ञान विमुक्तये

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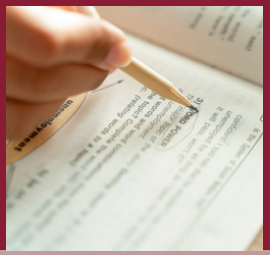
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ABOUT SBB-DYPUNM

The **School of Biotechnology and Bioinformatics, a constituent unit of D. Y. Patil Deemed to be University, Navi Mumbai** was established in June 2003, with a vision to produce quality minds capable of strengthening and broadening the base of Biotechnology in India. The mission is to equip the students with extraordinary skills for life, making them not just job seekers but also job creators. The School is a pioneer in Biosciences offering Under Graduate and Post Graduate programmes; and Doctorate studies in Biotechnology, Bioinformatics, Data Science and Food Science and Technology. It's a prominent and impressive 12- storied landmark structure sprawling a built up area of 64,000 sq. feet situated in Sector 15, CBD Belapur, Navi Mumbai. The school is being headed by Prof. Debjani Dasgupta and has more than 50 qualified and experienced faculties who endeavor to provide world class education to students

ABOUT TECHMEDBUDDY

TechMedBuddy is a DPIIT and MSME-certifieded Ed-tech and service-based company specializing in Bioinformatics, Computational Biology, and Healthcare Data Science. The mission of the company is to bridge the gap between academia , industry and reserch by empowering life science graduates with in-demand skills in Data Science and AI. With over 1000+ students trained across Bachelors, Masters, and PhD levels, TechMedBuddy is dedicated to building a skilled workforce ready for careers in healthcare, biotechnology, and research. The diverse team of data scientist, bioinformaticians, computational biologists, clinical data scientists, and clinicians ensures high-quality, real-world training and mentorship. Techmedbuddy envisions a future where Indian life science professionals are equipped to lead innovation in healthcare through data driven approaches . It is committed to making this vision a reality—one student, one breakthrough at a time.





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WHY CHOOSE US?



Interdisciplinary Approach

Blends healthcare, life sciences, AI, data science and informatics.



Industry-Relevant Learning

Hands-on projects and real-world case studies.



Expert-Led Training

Learn from experienced faculty and industry professionals.



Career-Focused

Built to prepare you for high-demand roles in healthcare and beyond.



Future-Ready Skills

Stay ahead with cutting-edge skills in AI, machine learning and digital health.

LEARNING OUTCOMES



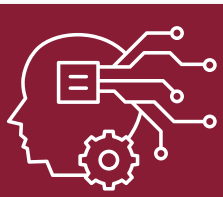
Apply statistical and machine learning methods to healthcare data.



Analyse clinical, omics, imaging, and biomedical datasets.



Design AI-based solutions for real healthcare problems.



Interpret analytical and AI outputs in clinically meaningful ways.



Apply responsible AI principles across ethics, privacy, safety, and regulation.



Contribute to digital health, clinical research, and healthcare product development.

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PROGRAMME HIGHLIGHTS

DURATION : 12 MONTHS
(3 TRIMESTERS)



Mode: 100% Online (Live + Recorded lectures)



Credits: 48 Credits Comprehensive postgraduate-level curriculum



Industry Capstone Projects, Domain Certification



Mentorship by Tech & Health Experts from the Industry



100% Project-Based Learning



Job Readiness & Placement Support

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WHO CAN APPLY?

Undergraduate: Students completed Bachelor's degree in Medical Sciences, Pharmacy, Nursing, Biomedical Science, Biotechnology, Bioinformatics, Microbiology, Molecular Biology, or any other Life Sciences-related discipline.





Postgraduate: Students currently pursuing or having completed a Master's degree in Medical Sciences, Pharmacy, Nursing, Biomedical Science, Biotechnology, Bioinformatics, Microbiology, Molecular Biology, any other Life Sciences-related discipline.

Researchers : PhD scholars and postdoctoral fellows seeking interdisciplinary exposure





Professionals: Doctors, Dentists and working individuals in healthcare, pharma, research, or tech aiming to upskill in healthcare/biological data

PROGRAM CURRICULUM

TRIMESTER I — FOUNDATIONS OF HEALTHCARE DATA & AI

01	Elementary Mathematics for ML	3 Credits
02	Statistics for Clinical Sciences	3 Credits
03	Programming Essentials for Data Science	4 Credits
04	Biomedical Data Ecosystem	3 Credits
	Project I	2 Credits
	Hands-on Workshop I	1 Credit

TOTAL 16 CREDITS

TRIMESTER II — CLINICAL INFORMATICS & MACHINE LEARNING

01	Clinical Informatics & Decision Support Systems	4 Credits
02	Introduction to Machine Learning in Healthcare	4 Credits
03	Causal Inference in Clinical Decision Making	3 Credits
	Project II	2 Credits
	Hands-on Workshop II	1 Credit

TOTAL 14 CREDITS

TRIMESTER III — ADVANCED AI FOR HEALTHCARE

01	Computer Vision for Radiology & Pathology	4 Credits
02	NLP in Clinical Sciences	4 Credits
03	Ethics in AI	3 Credits
	Hands-on Workshop III	1 Credit
	Capstone Project	6 Credits

TOTAL 18 CREDITS

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CAREER OPPORTUNITIES



01

HEALTHCARE DATA ANALYST

Analyse healthcare data to identify trends, patterns and support decision-making.

02

HEALTHCARE AI/ML ENGINEER

Develop AI and machine-learning solutions for healthcare applications.

03

CLINICAL DATA SCIENTIST

Analyse clinical and healthcare datasets to generate actionable insights.

04

BIOINFORMATICS SPECIALIST

Apply computational and data-science approaches to biological and biomedical datasets.

05

DIGITAL HEALTH PRODUCT DEVELOPER

Contribute to AI-powered digital health products and healthcare technologies.

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INSTRUCTORS



DR. RANJEET BIDWE

PHD, CSE (ASSISTANT PROF, SYMBIOSIS UNIVERSITY)

AI researcher and academician specializing in Deep Learning, Computer Vision, and Video Analytics, with publications, reviewing experience, and global recognition.



Dr. Harsh

PhD in Computational Biology, IISC

Dr. Harsh Specializes in linear algebra, differential equations, data science, and machine learning.



Mr. Prithivee

(M.Tech. in AI , IIITH)

ML Engineer with 4+ years' experience. Master's in Data Science (IIIT Hyderabad). Specializes in GenAI, NLP, and MLOps.



Dr. Ravi Kumar Bansal

MBBS, PRAVARA INSTITUTE OF MEDICAL SCIENCES, LONI

Dr. Ravi Kumar Bansal is an orthopaedics resident and healthcare professional focused on patient-centred rehabilitation.



Mr. Alok Anand

PhD, AI in Healthcare, IIITD
Director, TechMedBuddy

With more than 10+yrs of teaching experience holds expertise in AI in Healthcare and Multi Omics research.

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ADMISSION PROCESS

Step 1

Submit Application

Fill out the programme registration form with your academic and contact details.

Step 2

Document Verification & Fee Payment

Submit the required documents and complete the programme fee payment as per the selected instalment plan.

Step 3

Admission Confirmation

Admission confirmed after document verification and fee payment. Receive login credentials .



PROGRAMME FEE

For NRIs and International Candidates	**1,25,000 INR**
For Indian Nationals	**1,25,000 INR**

Note: Fee can be paid in 3 installments



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School of Biotechnology and Bioinformatics, D Y Patil Deemed to be University.
PLot 50, Sector 15, CBD Belapur, Navi Mumbai 400 614
dypatil.edu/schools/school-of-biotechnology-bioinformatics/

ACADEMIC COLLABORATION PARTNER

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