

PRESENTS

NEURATHON

AI FOR GOOD

NIT SILCHAR



2025
EDITION

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ABOUT

ESTABLISHED IN 1967, THE NATIONAL INSTITUTE OF TECHNOLOGY (NIT) SILCHAR IS ONE OF INDIA'S LEADING TECHNICAL INSTITUTIONS, KNOWN FOR ITS ACADEMIC EXCELLENCE AND INNOVATIVE RESEARCH. LOCATED IN THE SCENIC BARAK VALLEY OF ASSAM, THIS INSTITUTE OF NATIONAL IMPORTANCE IS COMMITTED TO DEVELOPING SKILLED ENGINEERS AND TECHNOLOGISTS PREPARED TO ADDRESS GLOBAL CHALLENGES.



NIT SILCHAR IS DEDICATED TO SUSTAINABILITY, ETHICAL PRACTICES, AND SOCIAL RESPONSIBILITY, PREPARING STUDENTS TO BECOME COMPASSIONATE AND INNOVATIVE LEADERS. AS A BEACON OF EXCELLENCE, THE INSTITUTION SHAPES THE THINKERS AND CHANGEMAKERS OF TOMORROW IN OUR INCREASINGLY INTERCONNECTED WORLD.

NIT SILCHAR

ML CLUB NITS

THE MACHINE LEARNING CLUB OF NIT SILCHAR IS A DYNAMIC COMMUNITY THAT IS IN PURSUIT OF INNOVATION AND EXCELLENCE IN THE FIELD OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING. THE CLUB IS A PLATFORM FOR COLLABORATION AND CREATIVITY AND HAS EMPOWERED STUDENTS TO EXPLORE LEADING-EDGE TECHNOLOGIES, WORK ON REAL-WORLD CHALLENGES, AND CONVERT IDEAS INTO IMPACTFUL PROJECTS. WE BRING THEORY INTO PRACTICE THROUGH ACTIVITIES SUCH AS SPEAKER SESSIONS, WORKSHOPS, PAPER DISCUSSIONS, AND WEEKLY CLASSES IN ML. THESE ARE MEANT TO PREPARE MEMBERS WITH THE NECESSARY SKILLS AND CONFIDENCE TO LEAD INNOVATION AND ACTS OF IMAGINATION IN THE RAPIDLY CHANGING AI LANDSCAPE.

THE CLUB RECOGNIZES ITS MEMBERS' TRIUMPHS AND ACHIEVEMENTS. SEVERAL MEMBERS HAVE HAD THEIR RESEARCH PAPERS ACCEPTED AT PRESTIGIOUS INTERNATIONAL CONFERENCES AND HAVE THUS PRESENTED THEIR WORK ON GLOBAL PLATFORMS. AS WE CONTINUE TO GROW AS A COMMUNITY, THE MACHINE LEARNING CLUB OF NIT SILCHAR INVITES YOU TO JOIN US ON THIS JOURNEY OF GROWTH AND TECHNOLOGY

NEURATHON

ABOUT

NEURATHON IS A DISTINGUISHED MACHINE LEARNING HACKATHON DESIGNED FOR THE DEVELOPMENT OF CREATIVE AI SOLUTIONS WITHIN AN INTENSIVE, COLLABORATIVE ENVIRONMENT. PARTICIPANTS FORM TEAMS TO TACKLE CHALLENGES CURATED BY THE ORGANIZERS, FOCUSING ON AREAS SUCH AS SOFTWARE ENGINEERING, DATA MODELING, AND ALGORITHM OPTIMIZATION.

THIS EVENT SERVES AS A DYNAMIC PLATFORM FOR SHOWCASING TECHNICAL EXPERTISE, EXCHANGING KNOWLEDGE WITH INDUSTRY PEERS, AND DESIGNING IMPACTFUL AI-DRIVEN PRODUCTS. NEURATHON OFFERS A UNIQUE OPPORTUNITY FOR INDIVIDUALS PASSIONATE ABOUT MACHINE LEARNING TO GAIN PRACTICAL, HANDS-ON EXPERIENCE WHILE CONTRIBUTING TO THE ADVANCEMENT OF ARTIFICIAL INTELLIGENCE.

EVENT DETAILS

1 **ROUND** **KAGGLE** **CONTEST** **ONLINE**

PARTICIPANTS WILL DIVE INTO A CHALLENGING KAGGLE COMPETITION IN TEAMS OF UP TO 4 MEMBERS , AND A MINIMUM OF 2 MEMBERS

REQUIREMENTS

1 SUBMISSION

SUBMIT THE FINAL RESULT CSV FOR EVALUATION

2 EVALUATION CRITERIA

JUDGING WILL BE BASED PRIMARILY ON ACCURACY, WITH THE HIGHEST-PERFORMING MODELS ADVANCING.

3 DOCUMENTATION

TEAMS MUST SUBMIT A WELL-DOCUMENTED JUPYTER NOTEBOOK, HIGHLIGHTING THEIR APPROACH, METHODOLOGY, AND CODE.

THIS ROUND SERVES AS A PRELIMINARY STAGE, AND ONLY THE TOP-PERFORMING TEAMS WILL ADVANCE TO ROUND 2, HELD ON-CAMPUS AT NIT SILCHAR.

2ND ROUND MODEL MAKING ON CAMPUS

VENUE NIT SILCHAR CAMPUS

TIMELINE 3 DAYS

DAY 1•2 PROBLEM STATEMENT MODEL MAKING

1 PROBLEM STATEMENT RELEASE

- THE PROBLEM STATEMENT WILL BE REVEALED ON DAY 1 UPON ARRIVAL.
- TEAMS WILL SELECT THE PROBLEM THEY WISH TO WORK ON.

2 GIT REPOSITORY

- CREATE A PRIVATE GITHUB REPOSITORY (NOT BEFORE ROUND 2) TO ENSURE A TRANSPARENT WORKFLOW.
- ADD THE OFFICIAL CLUB ACCOUNT AND TEAM MEMBERS AS CONTRIBUTORS.
- COMMIT HISTORY: REGULAR COMMITS WILL BE MONITORED.
- AN AUTO_COMMIT.BAT FILE IS MANDATORY TO AUTOMATE COMMIT PROCESSES.

3 SUBMISSION DEADLINE

ALL COMMITS MUST BE COMPLETED BY DAY 2, EOD.

4 PRESENTATION PREPARATION

- TEAMS MUST PREPARE A DETAILED PPT SHOWCASING THEIR MODEL AND METHODOLOGY.
- OPTIONALLY, PARTICIPANTS MAY SUBMIT A SMALL WORKING VIDEO, WHICH WILL PROVIDE AN ADDITIONAL ADVANTAGE IN THE EVALUATION PROCESS.

5 DEMONSTRATION

TEAMS MAY BE ASKED TO DEMONSTRATE THEIR WORKING MODELS DURING PRESENTATIONS.

DAY 3 PRESENTATION, SPEAKER SESSION & CONCLUSION

1 PRESENTATION

- TEAMS WILL PRESENT THEIR MODELS AND PPTS BEFORE A PANEL OF ESTEEMED JUDGES.
- EVALUATION WILL FOCUS ON
 - CREATIVITY
 - TECHNICAL EXECUTION
 - OVERALL IMPACT

2 SPEAKER SESSION

ATTENDEES WILL ENJOY AN INSPIRING SESSION LED BY INDUSTRY LEADERS AND EXPERTS.

3 CONCLUSION & PRIZE DISTRIBUTION

RESULTS WILL BE ANNOUNCED, FOLLOWED BY A PRIZE DISTRIBUTION CEREMONY TO HONOR THE HARD WORK AND ACHIEVEMENTS OF ALL PARTICIPANTS

KEY NOTES

- DETAILED TIMINGS FOR THE PROBLEM STATEMENT RELEASE, PRESENTATION SCHEDULE, SPEAKER SESSIONS, AND RESULT DECLARATIONS WILL BE SHARED CLOSER TO THE EVENT.
- THE EVENT PROMISES TO BE A LANDMARK CELEBRATION OF INNOVATION, LEARNING, AND COLLABORATION.

RULES & REGULATIONS

1 All participants must register for the ML Hackathon in advance.

Each team must have a minimum of 2 and a maximum of 4 members. **2**

3 The submitted project must be original work and should not have been submitted to any other competition or event before.

All participants must attend the opening and closing ceremonies of the hackathon. **4**

5 Teams are responsible for bringing their own laptops, power banks, and other necessary equipment.

The organizers reserve the right to disqualify any team that is found to be in violation of any of the rules and regulations. **6**

7 All participants must comply with the rules and regulations of the host institution.

Any participant found to be involved in misconduct or cheating will be penalized **8**

9 The organizers will not be responsible for any loss or damage to the personal belongings of the participants during the hackathon.

Participants must agree to allow the organizers to use the results of the hackathon for promotional and marketing purposes **10**

11 The teams must submit their final presentation and code on the provided platform before the deadline.

The decision of the judges will be final and binding. **12**

REGISTRATION

REGISTER NOW FOR NEURATHON!

Head to our website at mlclubnits.com or simply scan the QR code to secure your spot.

- **REGISTRATION PERIOD:** 01/02/2025 TO 03/02/2025
- **TEAM SIZE:** UPTO 4 MEMBERS

NOTE: THE TEAM LEADER MUST COMPLETE THE REGISTRATION ON BEHALF OF THE ENTIRE TEAM.

REGISTER



HERE

**DON'T MISS OUT—REGISTER TODAY AND BE
PART OF THE INNOVATION!**

PRIZES

NEURATHON 2025 PRIZE

At Neurathon, innovation meets recognition. To honor outstanding achievements, the total prize pool is distributed across three prestigious categories, each designed to inspire creativity, technical excellence, and impactful solutions. Below are the prize categories:

1 GRAND NEURATHON CHAMPION

The Grand Neurathon Champion award celebrates the most comprehensive and innovative project. It recognizes exceptional creativity, technical precision, and real-world applicability. Winning this award signifies mastery in developing groundbreaking AI solutions that address significant challenges.

AWARD CRITERIA:

- **ORIGINALITY AND INNOVATION**
- **TECHNICAL QUALITY AND CLARITY**
- **OVERALL RELEVANCE AND IMPACT**

2 BEST DEPLOYMENT SOLUTION

This award highlights technical excellence in AI model deployment. It emphasizes robustness, efficiency, and scalability, ensuring solutions can seamlessly transition from development to practical implementation.

AWARD CRITERIA:

- **ROBUSTNESS OF THE DEPLOYED MODEL**
- **EFFICIENCY AND RESOURCE OPTIMIZATION**

3 SUSTAINABILITY GENIUS

The Sustainability Genius award honors impactful solutions addressing critical societal or environmental challenges, such as climate change, resource management, or social welfare. This category showcases the power of AI in creating a better, more sustainable future.

AWARD CRITERIA:

- **RELEVANCE AND SIGNIFICANCE OF THE SUSTAINABILITY CHALLENGE ADDRESSED**
- **IMPACT AND SCALABILITY OF THE PROPOSED SOLUTION**
- **LONG-TERM FEASIBILITY AND POTENTIAL BENEFITS**