



**J.B. INSTITUTE OF ENGINEERING AND TECHNOLOGY (UGC
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**DEPARTMENT OF ARTIFICIAL
INTELLIGENCE AND MACHINE
LEARNING
&
DEPARTMENT OF CSE
(ARTIFICIAL INTELLIGENCE AND
MACHINE LEARNING)**

REPORT ON

NEURO DEBUG 2026

(A Multi-Stage Technical Assessment of Aptitude, Debugging, and Code Typing)

Organized By

Machine Learning Mavericks Club

Department of Artificial Intelligence and Machine Learning

Date: 13th March 2026 & 16th March 2026

Venue: Room 235, Main Block, JB Institute of Engineering & Technology

Mode: Offline (J.B. Institute of Engineering & Technology, Hyderabad)

Faculty Co-ordinators: Mr. S. Sathish Kumar & Mr. Chandrashekhar



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HACKSPHERE 2K26

NEURO DEBUG

ROUNDS



APTITUDE



DEBUG CHALLENGE



CODE TYPING CHALLENGE

SOLO REGISTRATION
FOR 100/-



CASH PRIZE

WINNER- 1000/-

RUNNER-500/-



13TH MARCH

10:30 AM

LAB NO.: 235

FACULTY COORDINATORS

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1. INTRODUCTION

In the rapidly evolving and intensely competitive landscape of modern software engineering, data science, and artificial intelligence, contemporary technologists are expected to be far more than mere theoretical learners. Today's demanding tech industry requires professionals who possess a formidable and dynamic combination of sharp logical reasoning, flawless syntax proficiency, and the unparalleled ability to execute complex algorithmic tasks rapidly under immense psychological pressure. Recognizing this critical industry prerequisite, the **Machine Learning Mavericks Club**, operating under the prestigious Department of Artificial Intelligence and Machine Learning (AIML), conceptualized, engineered, and executed **Neuro Debug**—a premier, multi-day technical championship meticulously designed to rigorously test and push the boundaries of student capabilities.

Conducted across two action-packed days on the **13th and 16th of March 2026**, Neuro Debug was designed to be far more than a traditional collegiate coding competition; it was envisioned as a comprehensive, multi-layered marathon of intellect, endurance, and technical acumen. By subjecting our students to this elevated level of evaluation early in their academic careers, the organizers aimed to bridge the persistent gap between foundational classroom learning and real-world software development expectations.

The competition systematically challenged its participants across three distinct and highly demanding technical verticals. It required students to navigate a custom-built, highly secure digital examination interface for quantitative analysis, relentlessly debug complex and convoluted Python scripts under unforgiving time constraints, and ultimately demonstrate their raw coding speed and syntactical accuracy in a high-octane typing challenge.

The initial announcement of the event generated immense enthusiasm and a competitive buzz across the campus, drawing an active and highly dedicated cohort of **29 elite participants**. Over the course of the competition, these dedicated students transformed the college's main block computer labs into a silent but intense zone of deep concentration, rapid keystrokes, and intellectual rigor. Through impeccable organization, the strict enforcement of zero-tolerance anti-malpractice rules, and highly professional evaluation standards maintained by the dedicated

student volunteers, Neuro Debug did not just test the participants—it successfully set a towering new benchmark for how technical events and hackathons should be conducted at the institute.

2. EVENT OBJECTIVES

The organizing committee meticulously architected this three-round technical marathon to achieve several specific academic, cognitive, and professional objectives. The primary goals included:

- **Comprehensive Cognitive Assessment:** To evaluate the fundamental mathematical, logical, and analytical reasoning skills of the participants through a time-bound, dynamically generated aptitude test. This ensures students are prepared for the initial screening rounds of major tech placements.
- **Syntax Mastery and Logic Rectification:** To challenge students to systematically identify, analyze, and rectify deep-rooted logical anomalies, runtime exceptions, and syntactical errors within pre-written, highly complex Python codebases.
- **Raw Execution and Typing Efficiency:** To rigorously test raw keystroke speed combined with absolute syntax accuracy. In modern software environments, typing speed and familiarity with special characters heavily dictate a developer's daily productivity; this objective sought to measure that often-overlooked metric.
- **Simulating High-Stakes Corporate Assessments:** To familiarize students with strict, zero-tolerance examination environments. By enforcing anti-malpractice protocols and utilizing custom testing interfaces identical to industry recruitment platforms, the event reduced future test anxiety for the participants.
- **Cultivating Professional Discipline:** To instill a sense of absolute professional integrity by enforcing silence, strict time limits, and the confiscation of digital crutches (like mobile phones and internet access) during the problem-solving phases.

3. EVENT DETAILS & LOGISTICS

Event Details & Logistics

The flawless execution of Neuro Debug required extensive backend preparation, technical infrastructure setup, and volunteer coordination.

- **Dates & Scheduling:** The event was strategically split to ensure optimal focus and mental recovery. Rounds 1 and 2 were conducted sequentially on **Friday, March 13th**, acting as the primary mass-elimination phase. The Final Round 3 was held on **Monday, March 16th, 2026**, for the elite qualifiers.
- **Infrastructure Setup:** The Advanced Computer Labs in the Main Block were utilized. All 29 assigned terminal machines were thoroughly inspected prior to the event to ensure operational keyboards, functioning mice, and stable local area network (LAN) connections to the central examination server.
- **Anti-Malpractice & Security Logistics:** A strict, non-negotiable zero-tolerance policy was enforced by the organizing committee. Before any examination module was unlocked, all participants were mandated to physically submit their mobile phones, smartwatches, and any other electronic devices to the organizing volunteers. These items were securely stored and only returned upon the final completion of the respective rounds. Internet access on the terminal machines was entirely disabled at the network switch level to prevent unauthorized web searches.
- **Attendance & Verification Protocol:** Every participant was required to officially sign the physical attendance registry and verify their college roll numbers before being assigned a specific workstation.
- **Organizing Body:** The event was completely spearheaded and managed by the student volunteers of the **Machine Learning Mavericks Club**, who acted as the primary invigilators, network system administrators, and manual code evaluators.

4. PARTICIPANT DEMOGRAPHICS & TEAM FORMATION

The event witnessed a highly focused, brave, and competitive turnout of **29 active participants**. The demographic consisted entirely of aspiring software engineers and AI technologists eager to validate their programming prowess and logical reasoning skills against their peers in a highly structured, uncompromising environment. Prior to the commencement of Round 1, a brief 15-minute orientation was conducted by the student coordinators to explicitly outline the rules, the nature of the custom UI, and the severe penalties for any form of malpractice.

Table: List of Participants

Sno	Name	Roll Number	College	Year	Branch	Phone	Signature
1	Alex Shaji	23671A05B3	JB ET		3 CSE	630002662	<i>Alex</i>
2	Asnish Sharma	25671A6655	JB ET		1 CSM	6301245062	<i>Asnish</i>
3	B. AKANKSHA	25671A7306	JB IET		1 AIML	6302705575	<i>B. Akanksha</i>
4	B. Sriharika	24J21A05P0	JBRFC		2 CSE	90091 84226	<i>B. Sriharika</i>
5	Gujuru sai rethesh	25671A6619	JB IET		1 CSM	6125669355	<i>Gujuru Sai</i>
6	Manth Kasala	25671A7301	Jbiet		1 AIML	8710554411	<i>Kasala</i>
7	K.sraekar	25671A6627	Jbiet		1 CSM	7337319119	<i>K.sraekar</i>
8	Keerthana B	25671A6607	Jbiet		1 CSM	9666020458	<i>Keerthana</i>
9	L.Jeshwanth roddy	25671A1219	JB IET		1 IT	9110761838	<i>L.Jeshwanth</i>
10	Laxman Milkuri	25671A12B6	JB IET		1 IT	7893845504	<i>Laxman</i>
11	Manne venkata sai Kr thik	24J21A6667	JBREC		2 CSM	8125437419	<i>Manne</i>
12	Meenakshi	25671A05F9	JB IET		1 CSE	8302853733	<i>Meenakshi</i>
13	MUDDHAGONI SAHITHI GCUD	25671A6681	JB IET		1 CSM	9441852776	<i>M. Sahithi</i>
14	N Durga Prashanth	24J21A6678	JBREC		2 AIML	7995723342	<i>N. Durgaprasad</i>
15	Narala Sai Praethi	24J21A6683	JBRFC		2 CSM	9652125726	<i>Narala</i>
16	Nilgir Anuroop Rao	24J21A6685	JBRFC		2 CSM	7013955008	<i>Anuroop</i>
17	Peddapuram sravan	24J21A6689	JBREC		2 CSM	9969188782	<i>Sravan</i>
18	Rahul La wari	23671A05C7	JB IET		3 CSE	7570891176	<i>Rahul</i>
19	S B I ANU PRAKASH	25J21A05L7	JBREC		1 CSE	6304796014	<i>S. Anuprasad</i>
20	S. Pradeena	25671A6697	JB IET		1 CSM	8887091089	<i>S. Pradeena</i>
21	S.sidcharth	25671A6612	Jbiet		1 CSM	72071 30308	<i>Siddharth</i>
22	Sahithi k	25671A6624	Jbiet		1 CSM	9014619826	<i>Sahithi</i>
23	Sidagam Karth k	25671A6647	JB IET		1 CSM	8341063770	<i>Sidagam</i>
24	Syed Baqer Ail Moosavi	23671A05A5	JB ET		3 CSE	7207581690	<i>Baqer</i>
25	Tankari Sindhu	25671A6648	JB IET		1 CSM	9676074153	<i>Sindhu</i>

26	Vishnu priya	25671A6666	Jbiet		1 CSM	8074885500	<i>Vishnu</i>
27	Vivek Vardhan Bandham	25671A7355	JB IET		1 AIML	8309826522	<i>B. Vivek</i>
28	Anushka Kumari	22671A6602	JB IET		1 CSM	8340112125	<i>Anushka</i>
29	B. Venkata Narasimha Rao	25671A7358	JB IET		1 AIML-B	9490660445	<i>Narasimha</i>

5. DETAILED EVENT STRUCTURE & ROUNDS

The competition was architected into three distinct, grueling phases. Each phase was governed by its own set of rigorous constraints, technical limitations, and evaluation metrics designed to filter out only the most capable candidates.

5.1 Day 1 - Round One: The Cognitive Aptitude Test (March 13th)

- **Format & Duration:** A proprietary, custom-built digital examination application was deployed across the local network. The test consisted of a formidable battery of **60 complex questions** encompassing Quantitative Analysis, Logical Reasoning, and Technical fundamentals, to be completed within a strict **60-minute** timeframe. Each question carried 1 mark, bringing the total to 60 marks, with a strategic decision to implement **no negative marking** to encourage calculated risk-taking.
- **Examination Interface & UI Experience:** Participants navigated a highly structured, professional-grade User Interface.
 - The left panel featured an interactive navigation grid, allowing students to seamlessly jump between different sections and specific question numbers.
 - A basic digital calculator was embedded in the top-right corner to assist with complex quantitative calculations without requiring external devices.
 - Essential navigation controls included: *Mark for Review* (for returning to difficult questions), *Clear* (to erase a selection), *Next*, *Previous*, *Save*, and the final *Submit* button.
- **Execution & Integrity Rules:** To entirely eliminate the possibility of screen-peeking or collaborative cheating, the backend algorithm dynamically shuffled both the question order and the multiple-choice options for every individual participant. Attempting to open external tabs, minimize the exam window, or utilize background applications resulted in an automatic, system-generated elimination. Participants were provided with physical rough sheets for manual calculations, all of which had to be surrendered post-exam.
- **Submission Protocol:** Upon clicking 'Submit', the application provided an immediate feedback loop, instantly displaying both the correct answers and the participant's actual selections for immediate cross-verification and learning. Any attempt to forcefully close

the application prematurely or immediately after submission without invigilator authorization resulted in retroactive disqualification.

5.2 Day 1 - Round Two: The Python Debug Challenge (March 13th)

- **Format & Duration:** Following a brief intermission, the qualified participants from the aptitude round immediately progressed to the debugging phase. They were provided with **5 separate, pre-written Python scripts**. Crucially, students were forced to execute and debug these scripts using the rudimentary **Python IDLE** environment. The total duration for this intense round was strictly capped at **50 minutes**.
- **The "No-Crutch" Philosophy:** By mandating the use of Python IDLE rather than advanced IDEs like VS Code or PyCharm, the organizers intentionally stripped away modern developer conveniences such as predictive autocomplete, automated linting, and syntax highlighting. This forced students to rely entirely on their raw knowledge of Python syntax.
- **Error Distribution & Complexity:** Each of the 5 provided programs was intentionally sabotaged with exactly 10 deliberate errors. These ranged from simple syntactical mistakes (missing colons, incorrect indentation) to deeply embedded logical flaws (infinite loops, mutable default arguments, incorrect array indexing), amounting to a total of **50 hidden errors**. Each successfully identified and fixed error yielded 1 point, establishing a maximum possible round score of 50 points.
- **Execution Rules:** Absolute, pin-drop silence was enforced. Participants were strictly warned to remove their hands from their keyboards and mice the instant the 50-minute timer concluded. Any post-timer code modifications resulted in instant elimination.
- **Evaluation Process:** Following the timer, student volunteers manually reviewed the saved Python scripts, executing them and painstakingly tallying the fixed errors. Participants were forbidden from interfering, arguing, or attempting to explain their code to the volunteers during this manual grading process.

5.3 Day 2 - Round Three: The Elite Code Typing Challenge (March 16th)

- **Format:** The final round was a pure test of translating complex thought into digital code via raw typing speed and unyielding syntax accuracy. The elite handful of participants who successfully survived the cognitive load of the first two hurdles returned on March 16th for this ultimate showdown.
- **Execution Rules:** Adhering to the overarching strictness of the Neuro Debug framework, the same stringent rules from Day 1 applied. Mobile phones were confiscated, local internet usage remained disabled, and absolute silence was mandated. Participants were provided with lengthy, highly complex blocks of algorithmic code printed on physical paper. They were required to replicate this code flawlessly into their digital text editors within a highly constrained, anxiety-inducing time limit.
- **Evaluation Criteria:** Submissions in this final round were meticulously judged on two primary, equally weighted metrics: absolute syntactical accuracy (zero typos, perfect case sensitivity, flawless structural indentation) and raw completion speed. A single typo could render an entire block of code useless, making this round incredibly tense.

6. EVALUATION METRICS & TIE-BREAKING PROTOCOLS

To handle highly competitive scoring overlaps, robust tie-breaking mechanisms were pre-defined for all rounds.

- **Aptitude Tie-Breaker:** In the event of a score tie in Round 1, a sudden-death sub-round of 10 highly difficult questions in a 10-minute window was implemented. Here, the absolute fastest submission timestamp was weighted equally alongside the final score.
- **Debugging Tie-Breaker:** A specialized, high-pressure tie-break involved 1 incredibly convoluted Python program containing 10 deeply hidden logical errors, accompanied by a strict 10-minute resolution window.

7. RESULTS & WINNERS

Following the grueling, multi-day evaluation process, the final scores across the Aptitude Assessment, Debugging Challenge, and Code Typing Gauntlet were meticulously aggregated. The objective was to identify the most technically proficient, well-rounded, and resilient students. The ultimate victors demonstrated exceptional logical clarity, flawless and encyclopedic knowledge of Python syntax, and remarkable execution speed.

Rank	Name	Execution time	Prize Won
Winner	Rahul Lalwani	23 minutes	1000 Cash Prize +Certificate
Runner-up	S. Bhanu Prakash	38 minutes	500 Cash Prize + Certificate

(Note: Final aggregate scores, typing speeds, and evaluation metrics were strictly verified, cross-checked, and authenticated by the core organizing committee volunteers prior to the announcement.)

8. OUTCOMES & KEY HIGHLIGHTS

The conceptualization and execution of Neuro Debug resulted in several highly positive, measurable academic and professional outcomes for the department:

- **Real-World Validation of Core Competencies:** The event successfully moved students far beyond the comfort of theoretical textbook knowledge, forcing them to apply logic, rectify syntax, and execute solutions in real-time, pressure-cooker scenarios identical to actual software deployment crises.
- **Cultivation of Professional Discipline:** The strict enforcement of mobile phone confiscation, the mandatory submission of rough sheets, and the uncompromising silence protocols instilled a strong, lasting sense of professional examination discipline among the 29 participants.
- **Robust Software Interface Deployment:** The successful utilization and zero-downtime deployment of a custom exam UI (complete with features like *Mark for Review*, network

security, and dynamic question shuffling) served as a massive testament to the advanced organizational, full-stack development, and technical networking capabilities of the student coordinators themselves.

9. FEEDBACK & TESTIMONIALS

Feedback collected extensively post-event from the 29 participants and the observing faculty was overwhelmingly positive and highly encouraging.

- **Participant Experience:** Students expressed profound appreciation for the transparent, immediate feedback system engineered into Round 1, where their selected answers were instantly cross-checked against the correct database upon submission, allowing for immediate self-correction. Furthermore, multiple participants noted that the specific, unforgiving requirement to use rudimentary Python IDLE in Round 2 brilliantly leveled the playing field, effectively removing the crutch of advanced IDE autocomplete features and revealing who truly understood the language.
- **Faculty Observation:** Attending faculty members explicitly acknowledged the seamless, logical transition between the theoretical foundations tested in the Aptitude round and the highly practical, hands-on applications required in the Debugging and Typing rounds. They highly praised the student volunteers for maintaining absolute academic integrity and successfully preventing any instances of technical malpractice.

10. CONCLUSION

Neuro Debug 2026 stands as a remarkably successful, flawlessly executed technical assessment event. By systematically filtering 29 dedicated participants through three grueling, meticulously designed rounds of logic formulation, syntax rectification, and high-speed code replication, the competition entirely achieved its overarching goal of identifying the most well-rounded, capable coders within the student body.

The strict adherence to complex rules, the seamless logistical management across two separate dates, and the highly professional, unbiased evaluation protocols further solidify the esteemed reputation of the **Machine Learning Mavericks Club**. It has proven itself as a premier, highly

capable organizing body equipped to execute complex, multi-day technical hackathons that significantly elevate the academic standards of the J.B. Institute of Engineering & Technology.

11. EVENT PHOTO GALLERY

