

Grade Thousands of Handwritten Answer Sheets in Minutes with AI

Leadership Team

Siddhant Gujar

Founder

B.Tech (Aerospace Engineering),
IIT Madras
Inter-IIT Innovation Meet Winner

Prof. Richa Agarwal

Faculty Advisor

Associate Professor, DoMS,
IIT Madras
Advisor — E-Cell, IIT Madras

Kamlesh Kumar Singh

Head — Institutional Partnerships

Drives B2B partnerships and
institutional outreach
On-ground scanning infra deployment

Benefits

For the Examiner

- Evaluate remotely — no travel, no physical papers
- AI pre-grades; examiner reviews & approves
- Focus only on borderline / disputed cases
- Flexible evaluation window
- Auto email notification when exam is assigned

For the Admin

- Central dashboard — monitor the entire process
- Role-based access (Admin, Observer, Examiner, Scanner)
- Auto email triggers for assigned exams and results
- Daily program updates to COE for affiliated institutions

For the University

- Results declared significantly faster
- Batch / stream / course-wise performance analytics
- Better data for NAAC and accreditation reports
- Scalable — handles thousands of papers seamlessly

AI Grading Workflow

1

Scanning of answer sheets

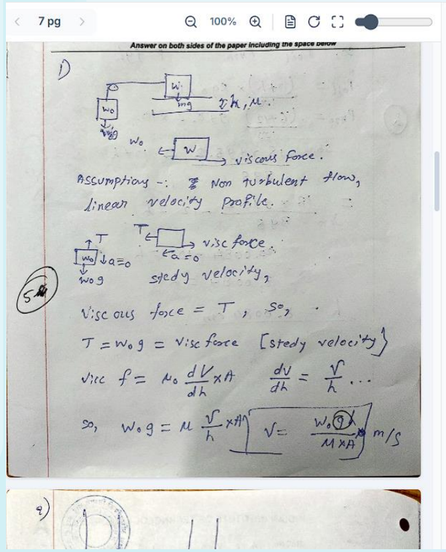
Answer sheets are masked and scanned.



2

AI evaluation of answer sheets

AI evaluates Answersheets Teacher adjust and approve.



Student correctly identified the force balance and derived the velocity formula. Note: used 'g' in the weight term which is correct for force balance.

STEP-WISE MARKING SCHEME

Identify that tension T = W₀ due to steady velocity of hanging weight.	Correct	1/1 M
State the formula for shear stress $\tau = mu\frac{dU}{dy}$.	Correct	1/1 M
Apply linear velocity profile to get $\frac{dU}{dy} = \frac{U}{h}$.	Correct	1/1 M
Calculate shear force $F_s = \tau A = mu\, A\frac{U}{h}$.	Correct	1/1 M
Apply force balance for the block: $T = F_s$.	Correct	1/1 M
Derive the final expression for U: $U = \frac{W_0 h}{mu A}$.	Correct	1/1 M

Total: 6 Marks

3

Detailed reports of students

Get detailed report on student perFormance.

QQ3 CORRECT **6** / 6

Student correctly identified assumptions for an inertial system and derived the pressure distribution. The sketch on page 5 shows the nested parabolic surfaces correctly.

STEP BREAKDOWN	STATUS	MARKS
State appropriate assumptions for an inertial system (constant velocity, no significant external forces)	CORRECT	1/1
Write down the pressure variation equations for rotating fluid (or directly the integrated pressure formula)	CORRECT	1/1
Derive the expression for constant pressure surfaces ($z = C + \frac{\omega^2 r^2}{2g}$)	CORRECT	1/1
Identify the shape of the constant pressure surfaces as paraboloids of revolution	CORRECT	1/1
Sketch: Draw cylindrical container	CORRECT	0.5/0.5
Sketch: Draw multiple nested parabolic surfaces opening upwards	CORRECT	1/1
Sketch: Indicate axis of rotation and symmetry	CORRECT	0.5/0.5

IMPROVEMENT TIP

Label the axes and the specific surfaces in your sketch for better clarity.

1

Create Account

Sign up with your email

→

2

Create Exam

Set subject, class, total marks

→

3

Submit Materials

Upload question paper, marking scheme & textbook

QUESTION PAPER

3) Draw a histogram for the grouped frequency distribution table

use of electricity (unit)	50-70	70-90	90-110	110-130	130-150	150-170
No. of families	150	400	460	540	600	350

TEXTBOOK CONTEXT

Continuous Classes	7.5–9.5	9.5–11.5	11.5–13.5	13.5–15.5	15.5–17.5
Frequency	20	40	30	25	15

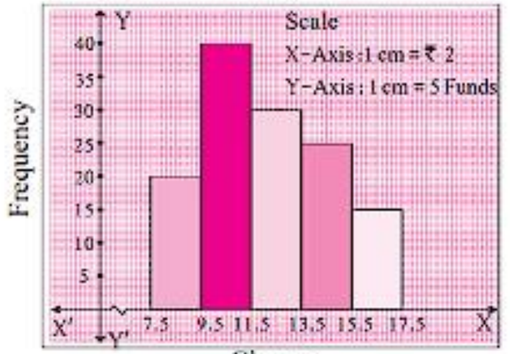


fig 6.1

Method of drawing a histogram :

1. If the given classes are not continuous, make them continuous. Such classes are

4

AI Drafts Model Answer

System creates marking scheme from textbook

→

5

Teacher Reviews & Approves

Edit, adjust, finalise marking scheme

MODEL ANSWER EDITOR — STEP-WISE MARKING SCHEME

QUESTION TEXT

3) Draw a histogram for the grouped frequency distribution table.

Use of electricity (Unit)	50-70	70-90	90-110	110-130	130-150	150-170
No. of families	150	400	460	540	600	350

MODEL ANSWER

Use $..$ for inline math, $$...$$ for block math

The given classes are continuous (e.g., 50-70, 70-90). The histogram will consist of adjacent rectangles.

Histogram Description:

* **X-axis**: Label 'Use of electricity (Unit)'. Mark class intervals: 50, 70, 90, 110, 130, 150, 170.
* **Y-axis**: Label 'No. of families'. Choose a suitable scale (e.g., 1 cm = 50 or 100 families) to accommodate frequencies up to 600.
* **Bars**: Draw rectangles for each class interval. The base of each rectangle will be the class interval on the X-axis, and the height will correspond to the frequency on the Y-axis.
  * 50-70 units: Height 150 families
  * 70-90 units: Height 400 families

6

Upload Student Sheets

Upload scanned/photo answer sheets (ZIP or PDF)

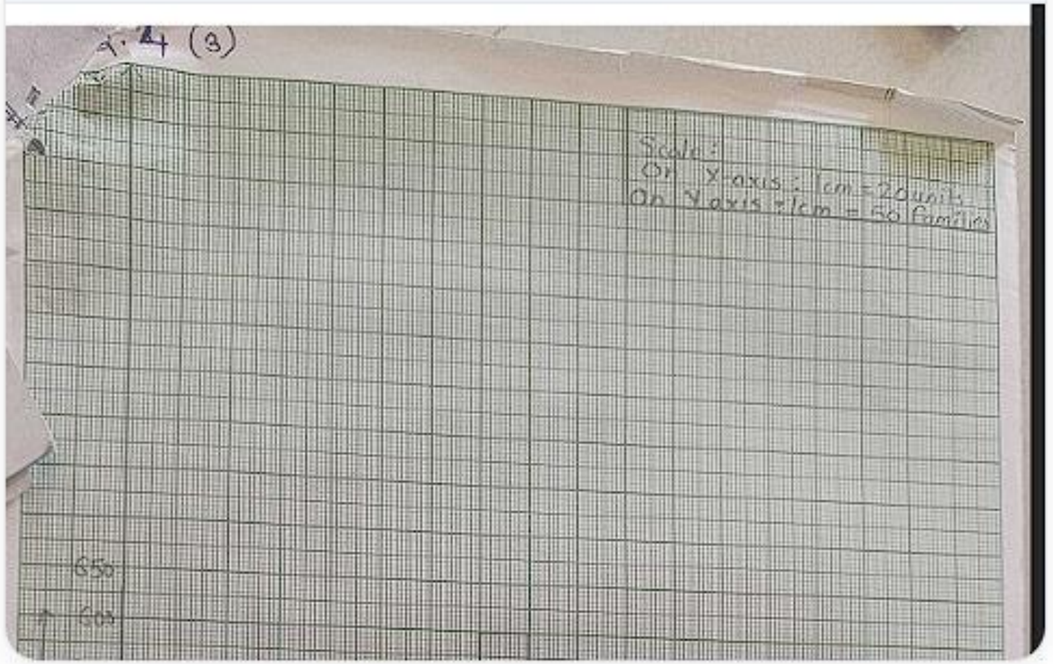
→

7

Download PDF Reports

Student-wise grading reports ready instantly

STUDENT ANSWER SHEET



SAMPLE PDF REPORT — REAL OUTPUT

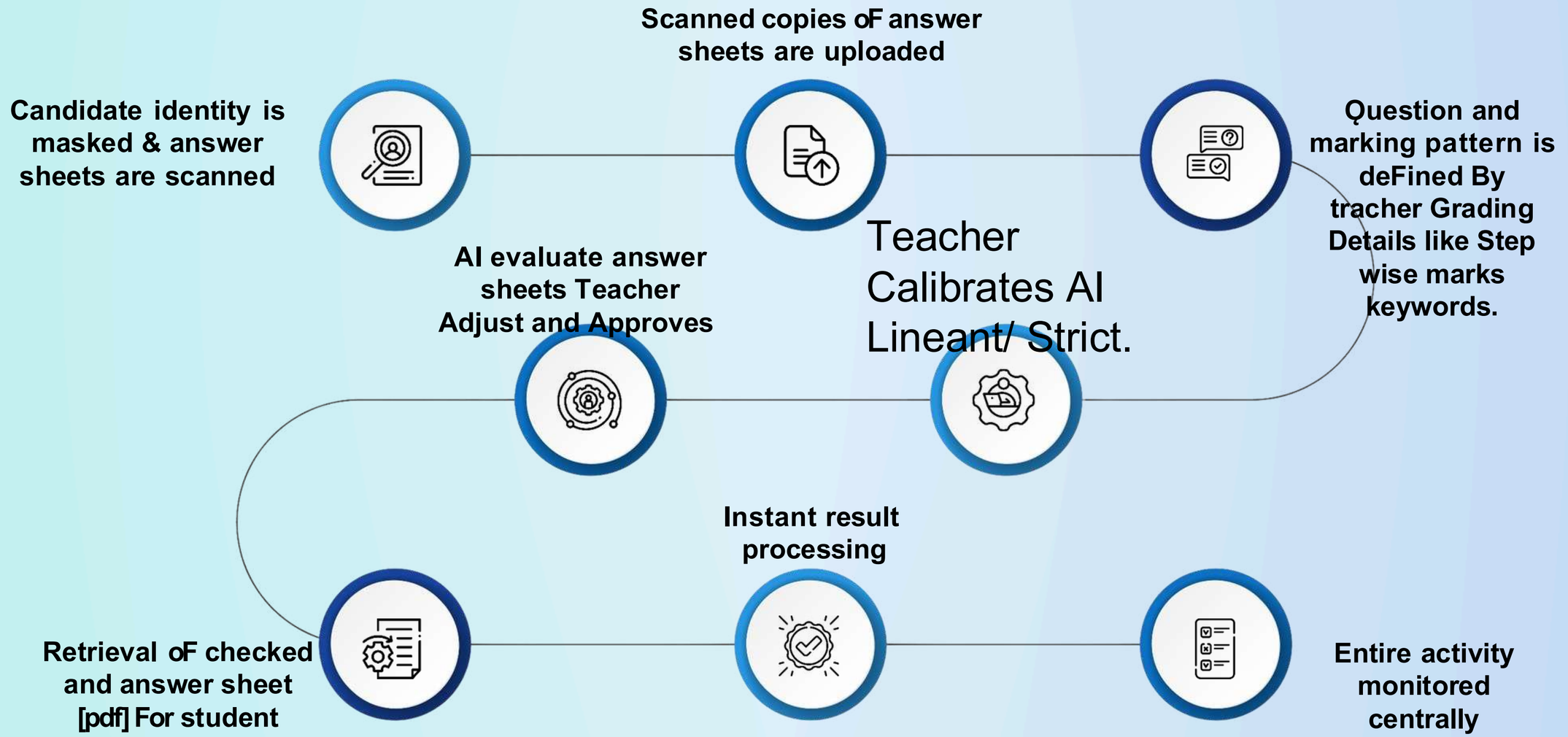
QQ4_3 EXTRA – PARTIAL CORRECT **3.5** / 4

The student correctly labeled both axes, provided a scale, and accurately plotted all the bars for the histogram. However, an explicit title for the graph was missing. [Extra Attempt - Not Counted]

STEP BREAKDOWN	STATUS	MARKS
X-axis label with unit ('Use of electricity (Unit)')	CORRECT	0.5/0.5
Y-axis label with unit ('No. of families')	CORRECT	0.5/0.5
Correct and uniform scale on both axes	CORRECT	1/1
Accurate plotting of all bars (heights corresponding to frequencies)	CORRECT	1.5/1.5
Graph title ('Histogram of Electricity Use by Families')	MISSING	0/0.5

↓ Download Sample Report PDF

Working of AI grading system



Components of AI Grading System

- Textbook Context Lock-in
- Step-wise Reasoning & Marking
- Teacher Style Calibration
- Grounded Results (Marks anchored to keywords)
- Auto-generation of PDF Reports

Analytics and Reporting

Standard and custom reporting.
Get reports For batch/stream/academic/course/ student wise perFormance.

Email Reporting Triggers

- Auto email trigger oF daily program details to COE For aFFiliated school(s)/college(s).
- Auto reminders oF evaluation to examiner,

.

Role-Based Access Control

Admin

Full access and control on activities

Observer

Monitor activities without interference

Examiner

Remote evaluation of answer sheets

Scanner

Scan answer sheets and track progress

Custom Access

Allow specific and tailored permissions

Alpha Testing at Leading Educational Institution IIT Madras

able 1: Raw Evaluation Data: Human Examiner vs. EduSathi AI (Max Marks: 30)

Paper ID	Human Score (/30)	AI Score (/30)	Deviation (AI − Human)
P1	27	25.0	−2.0
P2	20	19.5	−0.5
P3	19	17.5	−1.5
P4	17	19.5	+2.5
P5	14	14.5	+0.5
P6	26	27.0	+1.0
P7	17	15.5	−1.5
P8	22	24.0	+2.0
P9	22	20.5	−1.5
Average	**20.4**	**20.3**	−0.11

Let's talk

Get In Touch

EMAIL

siddhant@edusathi-ai.com

WEBSITE

edusathi-ai.com

We respond within 24 hours.

Discussing a pilot?

Tell us your institution name,
student count, and subject.

LinkedIn

linkedin.com/company/113020038