## Cleardeals AI Lead Scoring Engine – Intern Screening Assignment

#### A. Project Snapshot (Scope)

- Problem: Brokers spend too much time on low
   intent leads.
- Goal: Predict high■intent prospects; aim for 2■3× conversion lift.
- Solution: Al Lead Scoring Engine delivers an 'Intent Score' inside CRM/WhatsApp in under 300 ms.
- Key Components: Data ingestion → pgvector feature store → Gradient Boosted model + LLM re∎ranker → FastAPI + Redis → daily retrain & drift watch.
- Compliance: DPDP■ready, consent■first, all PII stored in India.

### B. 8■Hour Take■Home Assignment

- Show your data thinking, ML basics, and product mindset.
- Work solo. Use bullet points and short sentences.
- Clock starts when you receive this file; submit within 24 hours.
- 1. Data & Feature Brainstorm 1.5 h
- List main data source groups (behavioural, demographic, public, third■party).
- For each, suggest 2■3 concrete features and why they help predict intent.
- 2. Data Quality & Compliance 1.5 h
- Pick two data
   quality challenges and two compliance issues.
- · Give one mitigation idea for each.
- 3. Model Choice & Metrics 1.5 h
- Choose two technical and two business metrics to judge success.
- 4. Improving Lift & Adoption 1.5 h
- Suggest two ways to boost model lift if performance lags.
- Suggest two tactics to win sales team adoption if they push back.
- 5. Real

  Time Architecture & Scale 1 h
- Outline components that keep API latency <300 ms and push scores to CRM/WhatsApp.
- · Name one scale risk and how you'd handle it.
- 6. Monitoring & Continuous Learning 1 h
- Describe two mechanisms to track drift and keep models fresh.

#### Submission

- Single PDF; label each section clearly.
- Max 5 pages. Quality > quantity.
- Add your name and LinkedIn/GitHub at top.
- Email back within 24 hours.

#### How We'll Evaluate You

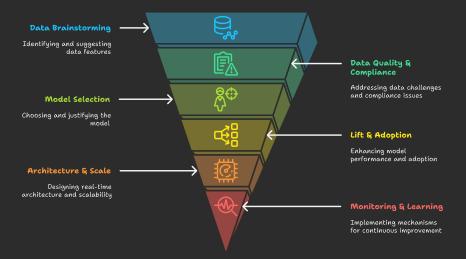
- · Did you cover every task and follow instructions?
- · Depth and practicality of ideas.
- Creativity in problem

  solving.
- Clear, concise writing.

## **Expert Tips**

- Tie every technical choice to business impact.
- Assume imperfect data propose workarounds.
- Keep it skimmable we have 250 applications.
- State assumptions when unsure.

# AI Lead Scoring Engine Development Funnel



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### Al Lead Scoring Engine Development Timeline

