

# Product Requirement Document: EduVoyage AI (v1.1)

**Status:** Ready for Development | **Target:** Indian Engineering Students (B.Tech/BE)

---

## 1. Executive Summary

EduVoyage AI is a hybrid intelligence platform designed to eliminate the confusion engineering students face when selecting foreign universities. By combining **AI-driven data analysis** with **human counselor validation**, the platform provides hyper-personalized university shortlists and **Return on Investment (ROI) forecasts** tailored specifically for the Indian engineering demographic.

---

## 2. Success Metrics (KPIs)

To measure the impact of the platform, we will track the following:

---

## 3. Core Features & "Engineering DNA"

### 3.1. The DNA Analyzer (Input)

- **Academic Scoping:** Captures 10th/12th/UG marks, STEM-specific grades, and standardized test scores (GRE/IELTS).
- **The Backlog Tracker:** Specifically tracks the number of subjects failed and cleared—a critical data point for Indian applicants.
- **Normalization Engine:** Automatically converts 10-point CGPA into specific 4.0 scales for US, German, and Australian requirements.

### 3.2. AI "Dream-Catch" Recommendations

- **Tiered Results:** Outputs 9 universities categorized into **Dream (20% chance)**, **Moderate (50% chance)**, and **Safe (80%+ chance)**.

- **ROI Radar:** Calculates the "Payback Period" using average tuition vs. engineering-specific starting salaries in the destination country.
- 

## 4. Technical Feature Brief: The Backlog Filter

*This is the unique selling point (USP) of the platform.*

- **Logic:** The system cross-references `backlog_count` against a database of university admissions policies.
  - **Tier 1 (Strict):** Auto-hides universities with zero-tolerance policies if backlogs > 0.
  - **Tier 2 (Flexible):** Highlights schools (e.g., in Australia or the UK) that accept up to 5-10 cleared backlogs.
  - **User UI:** Provides a "Eligibility Confidence" badge so students don't waste application fees on schools that will auto-reject them.
- 

## 5. User Journey (The Flow)

1. **Onboarding:** Student signs up (LinkedIn/Google) and completes the **Engineering DNA** form.
  2. **AI Processing:** The engine runs a match against the EduVoyage database and live scrapers.
  3. **Output:** Student receives a **University Compatibility Report** with ROI forecasts.
  4. **Human Validation:** A counselor reviews the AI's work on the **Counselor Dashboard**, adds manual notes, and approves the list.
  5. **Execution:** The final list is "Locked," and the student begins the document submission process (SOP, LOR, Visas).
- 

## 6. Technical & Ethical Requirements

- **Scalability:** Must handle traffic spikes during **May/June** (Indian result season).
  - **Security:** GDPR and Indian Data Protection compliance for PII (Personally Identifiable Information).
  - **Bias Mitigation:** AI logic must not discriminate based on the student's tier-city or socioeconomic status in the "Safe" recommendations.
-

## ***7. Implementation Roadmap***

- ***Phase 1 (MVP):*** *DNA Form, GPA Converter, Triage Algorithm, and Basic Counselor Dashboard.*
- ***Phase 2:*** *Live ROI Payback Calculator, Backlog-Specific University Badges, and Alumni Outcome Tracking.*
- ***Phase 3:*** *Automated Visa Success Predictor and AI-powered SOP Feedback.*

○