# AI-FEATURED PERSONALISED SCHOLARSHIP RECOMMENDER

## ALL SCHOLARSHIP INFORMATION IN ONE PLACE

A comprehensive platform designed to help students discover and access scholarship opportunities effortlessly.

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**ACADEMIC DETAILS**

**College Name**: Bhoj Reddy Engineering College For Women

# THE CHALLENGE

Students struggle to locate suitable scholarships because opportunities are fragmented across numerous disconnected websites. Critical information becomes difficult to access, and many deserving candidates miss deadlines or eligibility windows simply due to lack of awareness. What's needed is a unified solution that consolidates all scholarship data and delivers personalised recommendations.

### INFORMATION FRAGMENTATION

Scholarship details scattered across multiple platforms and websites

### MISSED OPPORTUNITIES

Students unaware of scholarships matching their profile and eligibility

### TIME CONSTRAINTS

Extensive manual searching delays applications and wastes valuable time

# OUR SOLUTION

The AI-Based Scholarship Finder Portal creates a single, intelligent platform where students can discover scholarships tailored to their specific circumstances. Through intelligent categorisation and AI-powered recommendations, we transform scholarship discovery from a tedious process into a seamless experience.

### CENTRALISED DATABASE

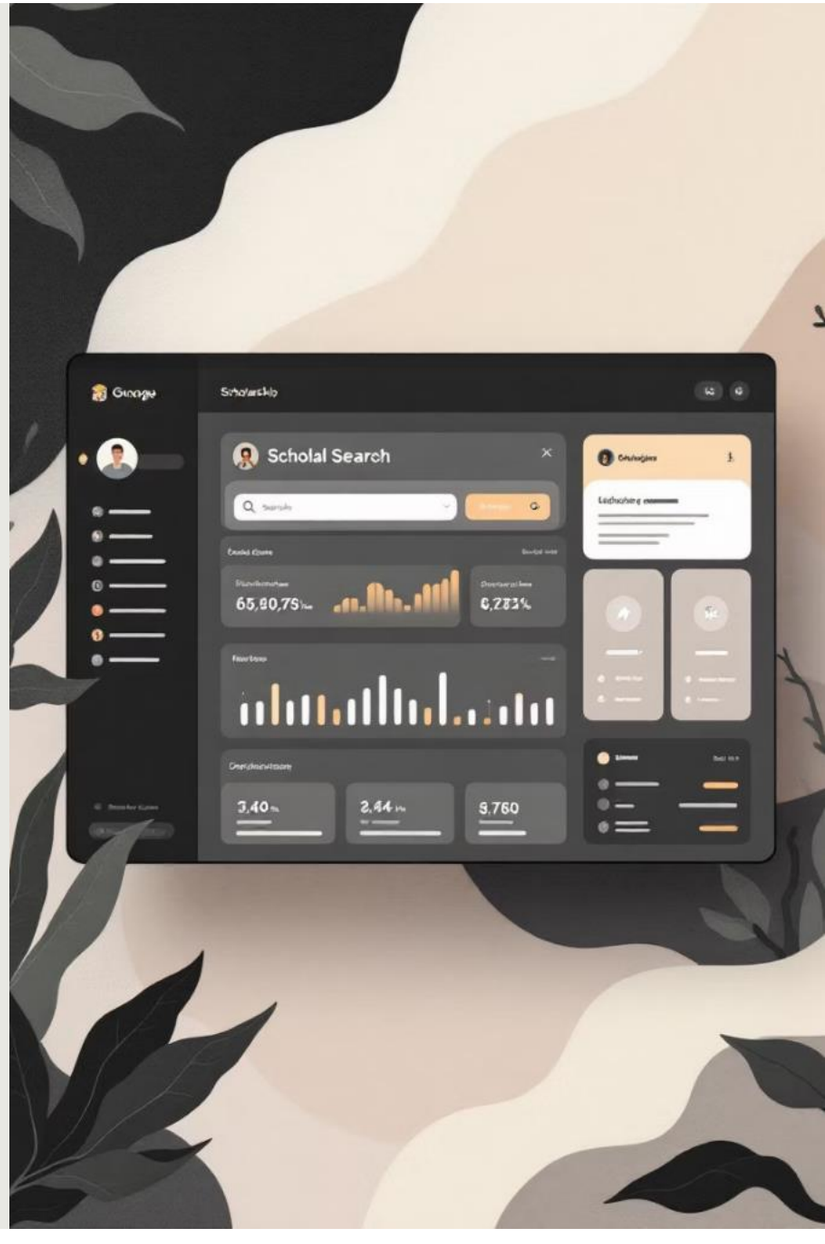
All scholarships aggregated in one searchable location

### SMART FILTERING

Search by category, stream, and eligibility criteria

### AI RECOMMENDATIONS

Personalised suggestions based on user profile



# CORE FEATURES

### ADVANCED SEARCH

Find scholarships by category (SC, General, Girls) or academic stream with intuitive filtering options

### COMPLETE ELIGIBILITY DETAILS

View all required documents, criteria, and eligibility information consolidated in one place

### DIRECT APPLICATION

Access registration links and apply directly through the portal without external redirects

### AI SUGGESTIONS

Intelligent system recommends scholarships matching your profile and academic background

### LIVE UPDATES

Real-time application deadlines and updated links ensuring you never miss opportunities

# TECHNOLOGY STACK

| Layer | Technologies |
| --- | --- |
| Frontend | HTML5, CSS3 3 Responsive user interface for seamless experience across devices |
| Backend | Python with Flask Framework 3 Lightweight, scalable server-side application logic |
| Database | SQLite 3 Efficient local database for scholarship data management and queries |
| AI & Logic | Rule-Based Filtering 3 Category and stream-based intelligent recommendations |
| Development Tools | VS Code, Python Libraries (Flask, SQLAlchemy, Pandas for data processing) |

# SYSTEM ARCHITECTURE

1

**USER INTERFACE**

Interactive frontend

2

**APPLICATION LAYER**

Flask backend processing

3

**DATABASE LAYER**

SQLite data storage

4

**AI LOGIC**

Smart filtering engine

5

**RESULTS DISPLAY**

Formatted output to user

# HOW IT WORKS

### STUDENT LAUNCHES PORTAL

User accesses the intuitive home page and reviews available scholarship categories

### INPUT PREFERENCES

Enters category (SC, General, Girls) , academic stream (Engineering, Medical etc.), Gender ,Age ,Class.

### BACKEND PROCESSING

Flask application processes input and queries SQLite database for matching scholarships

### AI RECOMMENDATIONS

Intelligent logic applies eligibility rules and suggests best-matched scholarships

### RESULTS & APPLICATION

Comprehensive results displayed with details, deadlines, and direct application links

# APPLICATION INTERFACE

The portal features two key pages delivering seamless user experience:

### HOME & SEARCH PAGE

Clean, intuitive interface where students input their category and stream preferences. Responsive design ensures accessibility across devices.

### RESULTS PAGE

Displays comprehensive scholarship table with all critical information including eligibility criteria, required documents, deadlines, and direct application links for immediate action.

# KEY ADVANTAGES

### CENTRALISED ACCESS

All scholarships available in one unified platform, eliminating tedious multi-site searching

### TIME SAVINGS

Dramatically reduces research time, enabling students to focus on applications and preparation

### INCREASED AWARENESS

Exposes students to scholarship opportunities they might otherwise miss completely

### USER-FRIENDLY

Intuitive interface designed for students of all technical proficiency levels

### SCALABLE FOUNDATION

Built with extensible architecture for future enhancements and additional features

# FUTURE ENHANCEMENTS

01

### REAL-TIME API INTEGRATION

Connect with official scholarship portals for automatic updates and live deadline information

02

### INTELLIGENT CHATBOT

AI-powered assistant to answer student queries and provide personalised guidance 24/7

03

### USER ACCOUNTS

Allow students to create profiles, save favourite scholarships, and track application status

04

### ADVANCED MACHINE LEARNING

Implement sophisticated algorithms for increasingly accurate and contextual scholarship recommendations

This platform represents the future of scholarship discovery4intelligent, accessible, and empowering students to achieve their educational aspirations.

# CONCLUSION

The project successfully provides a centralized platform for scholarship information.

Simplifies the search process for students.

Helps students find and apply for the right scholarship efficiently.

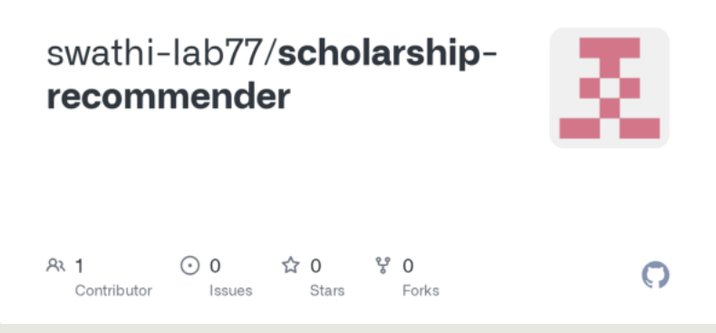
# REFERENCES


https://scholarships.gov.in

https://aicte-pragati-saksham.gov.in

Flask documentation 3 https://flask.palletsprojects.com

# GITHUB LINK:




GitHub

**GitHub - swathi-lab77/scholarship-recommender**

Contribute to swathi-lab77/scholarship-recommender development by creating an account on GitHub.

# PROJECT LINK :

https://scholarship-recommender-fja1.onrender.com