LITERATURE SURVEY

INTRODUCTION

In the current world scenario, it is not enough for a student to just have an Under Graduate degree. Most employers now look for higher qualifications in their new recruits. As a result, the demands for a good higher education are at an all time high. A lot of students from India prefer to continue their higher education with foreign universities, especially in the United States.

In order to get admitted to these foreign universities, a set of academic requirements are needed. However, because of the sheer number of universities of different levels, students are often stuck in a dilemma till the very last minute as to whether or not their applications will be accepted or not as no concrete documentation is available which lists the requirements.

ABSTRACT

This is a Requirements Specification Document for a new web-based University Admissions Predictor – UNIPREDICT. Uni predict is an AI based application that asks for the users to input their academic transcripts data and calculates their chances of admission into the University Tier that they selected. It also provides an analysis of the data and shows how chances of admissions can depend on various factors.

This document describes the scope, objectives and goals of the system. In addition to describing the non-functional requirements, this document models the functional requirements with use cases, interaction diagrams and class models. This document is intended to direct the design and implementation of the target system in an object-oriented language.

REQUIREMENTS

Project Name: University Admit Eligibility Predictor

Project type: Web Application

Developer: Aanchal Thakur

Languages used: Python, HTML, Java script , CSS

Database: MongoDB Development Platform: Visual Studios Code

Project Scope

This project Engineering Admission Predictor System is web based application in which students can register with their personal as well as marks details for prediction the admission in colleges and the administrator can allot the seats for the students. Administrator can add the college details and he batch details. Using this software, the entrance seat allotment became easier and can be implemented using system. The main advantage of the project is the computerization of the entrance seat allotment process. Administrator has the power for the allotment. He can add the allotted seats into a file and the details are saved into the system. The total time for the entrance allotment became lesser and the allotment process became faster.

Goal Statement

The goal of the system is to provide help to students who are looking for PG Abroad. The system proposes to achieve this by –

• Providing answers to the most commonly asked questions regarding university admissions for PG Studies Abroad.

• Providing an as accurate as possible prediction for the student's chances of admissions to the universities of their choice based on their academic transcripts.

• Providing an analysis conducted over our dataset to the user in order to help them understand the weightage of various academic data values on their chances of admissions.

SOFTWARE AND HARDWARE PLATFORMS USED

The following section details the Software and Hardware platforms used

to develop the UNIVERSITY ADMIT ELIGIBILITY PREDICTOR Application.

Hardware A home PC – capable of handling light ML processing.

Device Specifications:

1. I5 10th Gen processor

2. 8 GB RAM

3. 64 bit Operating System

Software

Visual Studios Code

Visual Studios is a free source-code editor made by Microsoft for Windows, Linux and MacOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

Anaconda (Jupyter Notebook)

Project Jupyter is a non-profit organization created to "develop opensource software, open-standards, and services for interactive computing across dozens of programming languages".[2] Spun off from IPython in 2014 by Fernando Pérez, Project Jupyter supports execution environments in several dozen languages. Project Jupyter's name is a reference to the three core programming languages supported by Jupyter, which are Julia, Python and R, and also a homage to Galileo's notebooks recording the discovery of the moons of Jupiter.

MongoDB

MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL)

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