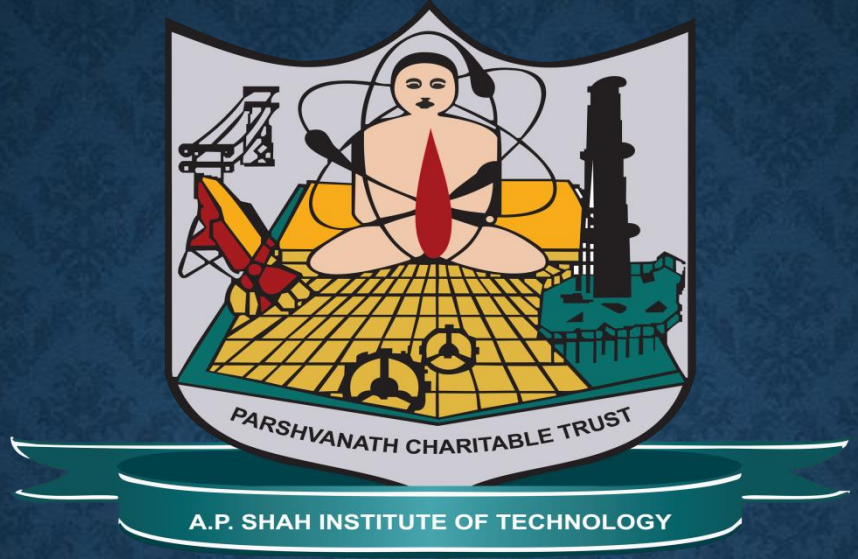



# Department of Computer Science &Engineering Artificial Intelligence & Machine Learning

A.P. Shah Institute of Technology

G.B.Road,Kasarvadavli, Thane(W), Mumbai-400615

UNIVERSITY OF MUMBAI

Academic Year 2022-2023

# E-CAREER CARE

**Computer Science & Engineering**
**Artificial Intelligence and Machine Learning**
By
Atul Gupta (21106006)
Siddhesh Dige (21106017)
Ajay Chaurasiya (21106045)
Amil Gauri (21106004)

Under the Guidance of
Prof. Odilia Gonsalves

# Index

# INTRODUCTION

- In todays world career care is very important, where the job market is increasingly competitive and rapidly changing. Investing time and effort into career care can help individuals stay relevant and achieve their goals.

- Our project has different aspects that it entails, such as career guidance, compatibility test.

- Benefits of E-career care, such as increased career satisfaction, higher earnings potential.

# Objective

- Provide a platform for students and educators to share their knowledge in field of education.
- Provide resources for students to help them choosing their own career.
- To give them proper well structured analysis of in which field they can choose their career.
- To provide detailed information on various colleges and industries in the selected field.
- To spread the awareness of various career fields in the society.

# Literature Survey

| Sr. No | Title | Author Name | Description |
|---|---|---|---|
| 1. | PCRS: Personalized Career-Path Recommender System for Engineering Students (IEEE Access 8 2020) | Qamhieh, Manar, Haya Sammaneh, and Mona Nabil Demaidi | To address the aforementioned drawbacks, this research paper presents a Personalized Career-path Recommender System (PCRS) to provide guidance and help high school students choose engineering discipline. The design of PCRS is based on fuzzy intelligence of N-layered architecture and uses students' academic performance, personality type, and extra-curricular skills. [1] |
| 2. | Generating unified candidate skill graph for career path recommendation.(IEEE XPLORE 2019) | Gugnani, Akshay, Vinay Kumar Reddy Kasireddy, and Karthikeyan Ponnalagu | skill graphs which capture both spatial and temporal relationships aid in generating precise career path recommendations. [2] |

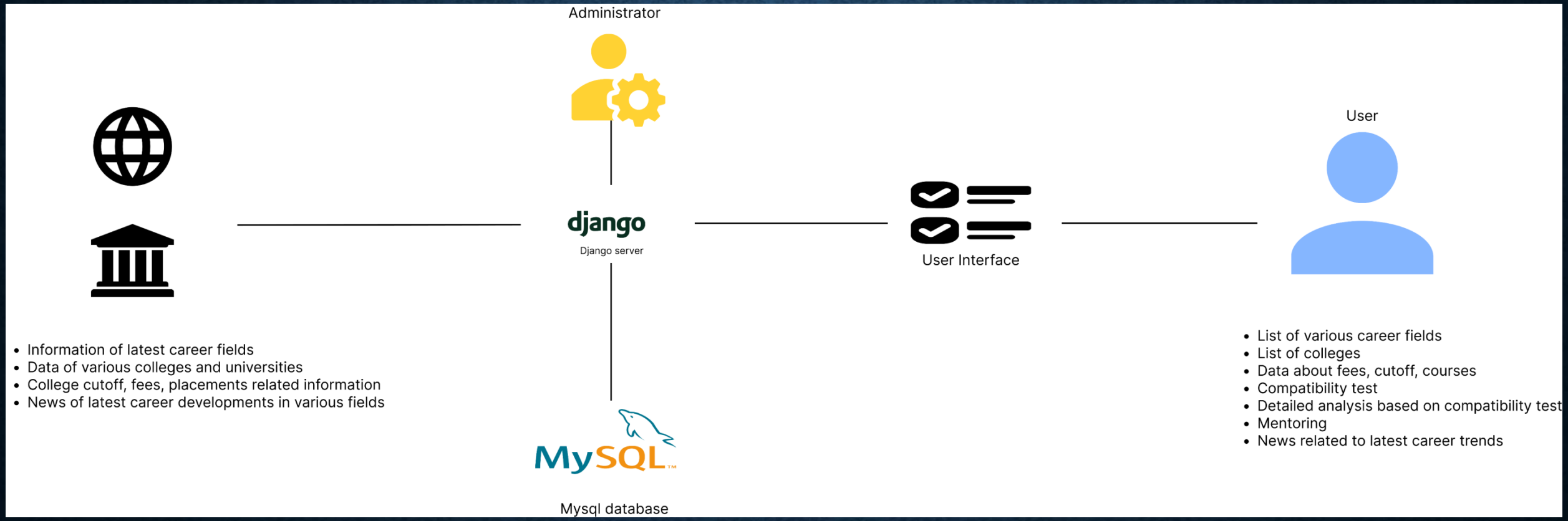
# Literature Survey

| Sr. No | Title | Author Name | Description |
|---|---|---|---|
| 3. | Skill-based career path modeling and recommendation.(IEEE XPLORE 2021) | Ghosh, Aritra, Beverly Woolf, Shlomo Zilberstein, and Andrew Lan | They have a made a model which is interpretable and can be used for other important tasks including skill gap identification and career path planning. Using a series of case studies, we show that our model can provide i) actionable feedback to users and guide them through their upskilling and reskilling processes and ii) recommendations of feasible paths for users to reach their career goals. [3] |
| 4. | Understanding what affects career progression using linkedin and twitter data(IEEE XPLORE 2018) | Pan, Yiming, Xuefeng Peng, Tianran Hu, and Jiebo Luo | They presented a novel methodology to determine a career stage based on the job title and company information, so that a career path that consists of several stages could represent the occupational growth. [4] |

# Literature Survey

| Sr. No | Title | Author Name | Description |
|---|---|---|---|
| 5. | Career and life assessment.(IEEE XPLORE 2002) | Kostek, P. J. | Companies are not only downsizing, they are also permanently eliminating levels of their organizations. Career planning is becoming an individuals responsibility. Flexibility and adaptability play a key part in careers of both new graduate engineers and experienced practitioners. [5] |

# BLOCK DIAGRAM


Administrator
django
Django server
User Interface
User
MySQL
Mysql database
• Information of latest career fields
• Data of various colleges and universities
• College cutoff, fees, placements related information
• News of latest career developments in various fields
• List of various career fields
• List of colleges
• Data about fees, cutoff, courses
• Compatibility test
• Detailed analysis based on compatibility test
• Mentoring
• News related to latest career trends

# Tools/softwares, Languages used

- HTML
- CSS
- JAVASCRIPT
- PYTHON
- DJANGO
- MYSQL



# PROJECT WORK

# Implementation

E-Career-Care

Home About Categories Book Contacts Login


**Caring Career means Growing Career**

Our Website helps you to choose a correct path for your future Career and also give you the knowledge about various opportunites present in your field and also the guidance to grab those opportunites.


## What to do After 10th ?

Completed your 10th but confused about whether should you take Science , Commerce or Arts ?

Then you have come at right place. Here we guide you about which stream you should take acccording to your interest and capabilities along with the detailed information about every stream.

Explore


## What After 12th Commerce ?

Purcuing your 12th in Commerce but don't know what to do next ?

Then know what to do next by simply exploring our website. Here you can get detailed anaylsis about the various opportunites available after 12th in Commerce stream with the guided path to acheive them.

Explore

# Conclusion

- We have now successfully completed 100 % work of our project .
- We have made a website “E-Career Care” which provides details about various career path available and is able to give the information that how much compatible is an individual in a stream through compatibility tests.
- We have successfully made the GUI in html, CSS and JavaScript and Back-end in python with Django framework with features like Google authentication and email verification.

# References

Journal Papers


[1] Qamhieh, Manar, Haya Sammaneh, and Mona Nabil Demaidi. "PCRS: personalized career-path recommender system for engineering students." *IEEE Access* 8 (2020): 214039-214049.

[2] Gugnani, Akshay, Vinay Kumar Reddy Kasireddy, and Karthikeyan Ponnalagu. "Generating unified candidate skill graph for career path recommendation." In *2018 IEEE International Conference on Data Mining Workshops (ICDMW)*, pp. 328-333. IEEE, 2018.

[3] Ghosh, Aritra, Beverly Woolf, Shlomo Zilberstein, and Andrew Lan. "Skill-based career path modeling and recommendation." In *2020 IEEE International Conference on Big Data (Big Data)*, pp. 1156-1165. IEEE, 2020.

[4] Pan, Yiming, Xuefeng Peng, Tianran Hu, and Jiebo Luo. "Understanding what affects career progression using linkedin and twitter data." In *2017 IEEE International Conference on Big Data (Big Data)*, pp. 2047-2055. IEEE, 2017.

[5] Kostek, P. J. "Career and life assessment." In *Proceedings of the IEEE 1993 National Aerospace and Electronics Conference-NAECON 1993*, pp. 1037-vol. IEEE, 1993.

# References

## Useful Links:

Django: https://www.w3schools.com/django/

Google Sign-in: https://youtu.be/E6LxUleoloU

Compatibility test: https://youtu.be/vXXfXRf2S4M

# THANKYOU