

CAREER COMPASS

Presented by Vinayaka kamath

Origin of the creative idea

Inspired by educational research, personal experiences, and technological advancements, our program provides personalized career guidance, resume building, and job recommendations. It aims to ensure all students, regardless of background, have access to the tools needed for informed career decisions.

ABSTRACT

01.

Career Recommendation

Our program offers personalized career recommendations tailored to students' strengths and interests, empowering them to explore suitable career paths aligned with their abilities and aspirations.

02.

Resume Builder

The program includes a user-friendly resume builder that assists students in creating professional resumes, enhancing their job readiness and presentation to potential employers.

03.

Job Recommendation

Students receive tailored job recommendations based on their skills and qualifications, helping them find opportunities that match their career interests and readiness.

Career Recommendation system

Ideation process

01

Creation of
DATASET
GENERATION

02

Conversion
of Dataset
into 1s and Os

03

Evaluation
of
Algorithms

04

Selection of
Best
Algorithm

DATASET

	Answer77	Answer78	Answer79	Answer80	Answer81	Answer82	Answer83	Answer84	Answer85	Answer86	Answer87	Answer88	Answer89	Answer90	Answer91	Career Option
2	Conducting medical research	Probation Officer	Paralegal	500 m	23.2 m	Rs. 7200	16	672 apples	Wednesday	7	900	2	10 years	756	13	Engineering
3	Assisting lawyers with legal research and case preparation	Lawyer/Attorney	Legal Assistant	240 m	25 m	Rs. 7500	25	700 apples	Wednesday	6.25	720	2	4 years	564	9	Technology
4	Conducting medical research	Paralegal	Police Officer	300 m	21.6 m	Rs. 6500	16	600 apples	Saturday	6.75	720	21	4 years	735	7	Technology
5	Providing counseling and therapy	Lawyer/Attorney	Lawyer/Attorney	300 m	25 m	Rs. 6400	15	672 apples	Friday	6.5	1200	2	8 years	645	9	Technology
6	Assisting lawyers with legal research and case preparation	Lawyer/Attorney	Police Officer	300 m	25 m	Rs. 6500	18	672 apples	Sunday	6.75	1200	21	4 years	564	4	Hospital
7	Managing hotel operations	Police Officer	Police Officer	500 m	23.2 m	Rs. 6400	25	672 apples	Sunday	6.5	1200	2	5 years	735	4	Business
8	Providing counseling and therapy	Lawyer/Attorney	Legal Assistant	500 m	24.72m	Rs. 6400	25	700 apples	Wednesday	6.75	1800	18	8 years	645	4	Teaching
9	Conducting medical research	Police Officer	Legal Assistant	500 m	24.72m	Rs. 6500	16	588 apples	Friday	6.75	1800	3	8 years	645	7	Engineering
0	Providing counseling and therapy	Police Officer	Police Officer	300 m	23.2 m	Rs. 6500	18	672 apples	Saturday	6.75	1200	3	8 years	564	13	Business
1	Assisting lawyers with legal research and case preparation	Probation Officer	Police Officer	500 m	24.72m	Rs. 6400	18	700 apples	Friday	6.5	1800	2	4 years	735	13	Banking
2	Providing counseling and therapy	Police Officer	Paralegal	120 m	24.72m	Rs. 7200	16	672 apples	Friday	6.5	1200	2	4 years	756	9	Banking
3	Conducting medical research	Probation Officer	Legal Assistant	120 m	21.6 m	Rs. 6500	16	700 apples	Sunday	6.75	1200	18	8 years	645	4	Social
4	Providing counseling and therapy	Lawyer/Attorney	Paralegal	300 m	25 m	Rs. 6500	16	672 apples	Sunday	6.5	1200	3	4 years	735	13	Engineering
5	Conducting medical research	Probation Officer	Police Officer	500 m	23.2 m	Rs. 6400	16	588 apples	Wednesday	6.5	1800	2	10 years	756	4	Technology
6	Providing counseling and therapy	Paralegal	Legal Assistant	240 m	23.2 m	Rs. 7500	25	600 apples	Saturday	6.75	720	21	8 years	735	13	Engineering
7	Assisting lawyers with legal research and case preparation	Police Officer	Paralegal	300 m	25 m	Rs. 6400	18	700 apples	Sunday	7	720	3	5 years	564	7	Social
8	Assisting lawyers with legal research and case preparation	Paralegal	Legal Assistant	500 m	23.2 m	Rs. 7200	18	588 apples	Saturday	6.25	900	21	5 years	564	13	Design
9	Managing hotel operations	Probation Officer	Paralegal	500 m	23.2 m	Rs. 6500	16	600 apples	Sunday	6.25	900	3	8 years	564	9	Design
0	Assisting lawyers with legal research and case preparation	Probation Officer	Legal Assistant	300 m	23.2 m	Rs. 6500	15	600 apples	Wednesday	6.5	720	3	4 years	564	13	Healthcare
1	Providing counseling and therapy	Probation Officer	Lawyer/Attorney	240 m	24.72m	Rs. 6500	16	700 apples	Sunday	6.75	1200	18	5 years	735	9	Technology
2	Conducting medical research	Paralegal	Paralegal	240 m	21.6 m	Rs. 7200	18	588 apples	Saturday	6.5	1200	3	4 years	645	4	Teaching
3	Assisting lawyers with legal research and case preparation	Police Officer	Lawyer/Attorney	500 m	23.2 m	Rs. 6400	16	588 apples	Sunday	6.75	720	21	10 years	564	13	Design
4	Providing counseling and therapy	Probation Officer	Police Officer	300 m	23.2 m	Rs. 6500	16	588 apples	Saturday	6.5	900	21	10 years	645	4	Technology
5	Assisting lawyers with legal research and case preparation	Paralegal	Paralegal	500 m	24.72m	Rs. 7500	25	700 apples	Friday	6.75	1200	3	8 years	756	13	Banking
6	Providing counseling and therapy	Police Officer	Lawyer/Attorney	120 m	24.72m	Rs. 7200	16	600 apples	Wednesday	7	900	3	4 years	735	13	Teaching
7	Managing hotel operations	Probation Officer	Police Officer	500 m	24.72m	Rs. 6400	25	700 apples	Friday	7	1200	18	8 years	645	4	Engineering

CONVERSION OF DATASET INTO 1S AND 0S

0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	1	0	1	0	Engineering
1	1	0	1	0	0	1	0	0	0	1	0	0	1	0	1	1	1	0	0	Technology
0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	0	0	Technology
0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	Technology
0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	Hospital
0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	Business
1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	Teaching
1	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	Engineering
0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	Business
0	0	1	1	0	0	0	0	1	0	0	1	1	1	0	0	0	1	1	0	Banking
0	1	0	0	1	1	0	0	0	1	0	0	1	0	0	1	1	1	1	1	Banking
0	1	1	0	0	0	0	1	0	1	1	1	0	0	0	1	0	0	0	0	Social
1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1	0	1	0	0	Engineering
0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1	1	Technology
1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	Engineering
0	1	0	1	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	Social
0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	Design
1	0	1	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	Design
0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	Healthcare
0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	Technology
0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	Teaching
0	1	0	1	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	Design
0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	Technology
0	0	1	1	0	1	0	0	0	0	1	1	0	0	1	0	0	0	1	0	Banking
0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	Teaching
0	0	1	0	0	0	0	0	1	0	0	1	1	0	0	1	0	0	1	0	Engineering

ALGORITHMS

Algorithm	Accuracy
Bayesian Decision Tree	0.1701
Decision Tree(Entropy)	0.9650
Decision Tree(Gini)	0.9750
K-Means Clustering	0.5404
K-Nearest Neighbors (KNN)	0.8879
Logistic Regression	0.99
Random Forest	0.9773
Support Vector Machine (SVM)	0.995
XGBoost	0.890

After implementing various algorithms, it was observed that the Support Vector Machine (SVM) model consistently demonstrated higher accuracy rates, prompting the decision to proceed with SVM for further analysis and experimentation.

A career recommendation quiz app, powered by the Support Vector Machine (SVM) algorithm, is a valuable tool for individuals seeking guidance in their career pursuits. The app uses machine learning to analyze responses to multiple-choice questions and generate personalized career recommendations, enhancing the accuracy of these recommendations. SVM's ability to classify data points based on features makes it an ideal choice for this task.

Working of the career recommendation app

The process involves transforming users' responses into a structured dataset, which is divided into a training set and a testing set. The training set comprises 70% of the total dataset, with 100,000 records, while the testing set comprises 30%. This division ensures unbiased evaluation and a sufficiently large sample size. The Support Vector Machine (SVM) algorithm is used to train a predictive model using the training dataset, which excels in identifying patterns within data and optimizing classification accuracy.

The SVM model is then evaluated using the testing dataset, comparing its predictions against known correct outcomes. This evaluation thoroughly scrutinizes the model's accuracy, precision, and other performance metrics.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

0/91

Submit Answers

Which programming language is commonly used for developing Android applications?

- Java
- Python
- C++
- Swift

Save And Next

Data Prediction Outcome and Action Plan

Inbox x

nnm22mc116@nmamit.in

to me ▾

Dear Vinayaka Kamath,

I hope this message finds you well.

I am writing to share the results of our latest prediction for your case. Based on our analysis, the prediction is as

Prediction: ['Business']

Additionally, here are the next steps we recommend:

['PUC', 'Business Management Course', 'Job Search']

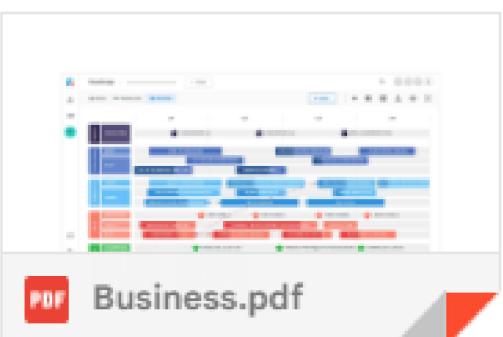
Please let me know if you have any questions or need further information.

Best regards,

Vinayaka Kamath

nnm22mc116@nmamit.in

One attachment • Scanned by Gmail ⓘ



RESUME BUILDER

The resume builder app simplifies the process of creating professional resumes and offers various features to enhance user experience. Its intuitive interface allows users to navigate through the resume-building process, ensuring a smooth and efficient workflow. The app eliminates the need for cumbersome formatting tools, allowing users to focus on highlighting their skills and experiences in the most compelling way possible. Its PDF generation capability ensures resumes maintain their polished appearance across various platforms and devices, catering to diverse preferences of employers and recruiters.

Usage Instructions

PRINT AS PDF

Download PDF

Profile Photo

Open Camera

Upload Profile Picture

USE AI

Open Chatbot

Template settings

Use official IITG template

Use custom template

Minor

Show Hide

Contact lines

3 4 5

Horizontal margin

1 2 3 4 5 6

Line spacing

1 2 3 4 5 6

Center column no.

1 2 3 4

Open Section Toggle Modal

Student Name

+91-9999999999

xyz.xyz@gmail.com

abc@iitg.ac.in

www.linkedin.com/in/xyz123

Objective

Enthusiastic and dedicated professional seeking a challenging position in [industry/field] where I can utilize my [skills/experience] to contribute to the success and growth of the organization while continuing to learn and develop professionally.

Education

Year	Degree / Certificate	Institute / Board	CGPA/Percentage
2014 - Present	B.Tech	Indian Institute of Technology, Guwahati	9.00 (Current)
2014	Senior secondary	CBSE board	97.0%
2012	Secondary	CBSE board	10.0

Experience

- XYZ Engineer at 'ABC' May 2016 - July 2016
www.abc.in
Analysed app usage statistics to recommend items based on user's preference.
- XYZ Engineer at 'ABC' Dec 2015
www.abc.in
Designed methods to improve the existing unit test mechanism.

Publications

- Advanced analysis of damping motion PCES 2010
Mentors
- Efficient ranking of search results LOCS 2010
Mentors

Projects

- Project title Ongoing
Project Mentor

Hybrid Face Detection: Real-time Camera Feed and File Upload Analysis

To visualize face detection using the Haar Cascade classifier: (haarcascade_frontalface_default.xml), we can capture an image from a camera and detect faces in it, then compare it to face detection from an image file. For the camera feed, an image is captured, and the classifier detects faces by analyzing the grayscale version of the image to identify regions that match the characteristics of a human face. These regions are highlighted with rectangles. The resulting image is then displayed with a title "Face Detection Using Camera Feed," showing how the classifier performs in real-time conditions.

Processed Image

Original Image



Revolutionizing Resume Building: Eidenai-Powered Chatbot Integration

Integrating Eidenai-powered chatbot functionality into your resume builder transforms the user experience, offering real-time guidance and personalized suggestions. This innovative approach streamlines resume creation, reducing time and effort while ensuring polished, professional results. By fostering intuitive, interactive communication, the chatbot enhances efficiency and user satisfaction throughout the resume-building process.

X

hi

Hello! Are you looking for information on how to create a resume?

i need objective of software developer in one sentence

The objective of a software developer is to design, develop, and maintain software applications that meet the needs and requirements of clients or end-users.

for design

A resume is a document that summarizes an individual's education, work experience, skills, and achievements. It is typically used when applying for a job or internship and serves as a first impression for potential employers. A well-designed resume can help showcase an individual's qualifications and stand out among other applicants.

When designing a resume, it is important to keep in mind the following elements:

1. Layout and Format: The layout and format of a resume should be clean, organized, and easy to read.

Type your question here...

Send

- Seamless experience for downloading resumes as PDF files and printing them effortlessly.
- Toggle sections on and off to customize resumes for specific job applications.
- Ability to highlight relevant experience and emphasize key skills.
- Options for adjusting contact lines, horizontal margins, and line spacing for better readability and a professional appearance.
- Title formatting options including uppercase or default title cases.
- Choice between ruled or shaded styles for titles.
- Ability to position title rules above or below the title for enhanced visual presentation.
- Flexibility in document customization to create aesthetically pleasing and effective resumes.

RESUME ANALYZER AND JOB RECOMMENDATION SYSTEM

Ideation process

01

Real-time job
data collection

02

Extraction of
skills and
experience from
resumes.

03

Tailored job
recommend
actions

Real-time job data collection

Title	Company	Salary	Description	Location	Link
Sr Engr Cslt-Sys Architect	Verizon		Bachelor's degree	Hyderabad, Telangana	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
Associate Software Dev	BOEING		Typically, 3 or more years experience	Bengaluru, Karnataka	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
UCC L2 Enginner	Lenovo		Bachelor's degree	Bengaluru, Karnataka	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
Data Analyst	Invact		Compile and analyze code	Remote	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
SME, Business Transform	CrowdStrike		Ability to identify, eval	Pune, Maharashtra	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
Avionics Software Intern	Airbus India Private Limited		In the avionics software	Bengaluru, Karnataka	https://in.indeed.com/rc/clk?jk=72b3f4e89098c9
Software Engineer 1	Epsilon		Creates user informat	Bengaluru, Karnataka	https://in.indeed.com/rc/clk?jk=3f08799ca9eba1
Remote AI Training for G	Outlier Ai		Enrollment or comple	Remote in Bhavnagar	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
Software Engineer	Wipro Limited		Degree in Engineering	Bengaluru, Karnataka	https://in.indeed.com/rc/clk?jk=db69484359553e
Manager, Research & Ins	Deloitte		Academic qualificatio	Hyderabad, Telangana	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
Software Engineer Pega	[Nielsen		Bachelor's degree in C	Hybrid work in Bengal	https://in.indeed.com/rc/clk?jk=f1de40b0fd2aff5
Trade Manager Oils	Archer Daniels Midland Com		Explore potential part	Gurugram, Haryana	https://in.indeed.com/pagead/clk?mo=r&ad=-6N
Software Engineer	PayPal		Regular maintenance	: Chennai, Tamil Nadu	https://in.indeed.com/rc/clk?jk=3e9002348c2d3t

Title	Company	Salary	Description	Location	Link	Experience	Keyword
Sr Engr Csl	Verizon		Bachelor's	Hyderabad	https://in.indeed.com	0	Other
Associate : BOEING			Typically,	Bengaluru, India	https://in.indeed.com	3	Software
UCC L2 En.	Lenovo		Bachelor's	Bengaluru, India	https://in.indeed.com	0	Other
Data Analyst Invact			Compile at	Remote	https://in.indeed.com	0	Other
SME, Busir	CrowdStrike		Ability to work	Pune, Maharashtra	https://in.indeed.com	0	Business
Avionics Sc	Airbus India Private Li		In the avio	Bengaluru, India	https://in.indeed.com	0	Software
Software E	Epsilon		Creates us	Bengaluru, India	https://in.indeed.com	0	Software
Remote AI	Outlier Ai		Enrollment	Remote	https://in.indeed.com	0	Other
Software E	Wipro Limited		Degree in I	Bengaluru, India	https://in.indeed.com	4	Software
Manager, I	Deloitte		Academic	Hyderabad	https://in.indeed.com	0	Other
Software E	Nielsen		Bachelor's	Hybrid wo	https://in.indeed.com	0	Software
Trade Mar	Archer Daniels Midlar		Explore po	Gurugram, India	https://in.indeed.com	0	Other

Extraction of skills from resumes

- Convert Resumes to Text:

Use tools like PyMuPDF or PDFMiner to extract text from resumes in various formats such as PDFs.

- Text Preprocessing:

Tokenization: Break down the text into words and sentences.

Stopword Removal: Remove common words (e.g., "and", "the").

Lemmatization: Convert words to their base forms.

- Named Entity Recognition (NER):

Use Spacy's pre-trained models to identify skill-related entities in the text.

- Skill Matching:

Match the extracted entities against a predefined list of skills.

Employ pattern matching to enhance accuracy.

- Post-Processing:

Filter and validate the extracted skills.

Standardize skill names to ensure consistency.

Integrating Resume Skills with Job Requirements for Predictive Matching

Integrating the extracted skills from resumes with job requirements involves using predictive analytics and machine learning algorithms to assess the fit between candidates' skills and job descriptions. This predictive assessment helps recruiters identify candidates whose skill sets closely align with organizational needs, enhancing hiring efficiency and supporting data-driven talent acquisition decisions.

Results and discussion

1. integration of Multiple Functionalities:

By combining career recommendations, resume building, and job matching, the tool provides a holistic approach to career Planning.

2. User-friendly interface:

The intuitive and user-friendly interface of the resume builder and job recommendation features ensures users can easily navigate and utilize the tool, regardless of their level of technical proficiency.

3. Utilization of Advanced Technologies:

The project leverages machine learning algorithms to analyze user data and generate career and job recommendations, ensuring that the suggestions are data-driven and accurately reflect users' skills and experiences.

CONCLUSION AND FUTURE ENHANCEMENTS

1. Holistic Career Planning:

- Personalized insights and practical resources
- Machine learning and web scraping for up-to-date recommendations

2. Interactive Career Recommendations:

- Video-based interaction with personalized questions
- Field-specific queries for industry-specific advice

3. Enhanced Resume Building:

- Interactive tutorials and AI-powered suggestions
- Real-time job matching with continuous web scraping

4. Skill Gap Analysis Tool:

- Compares resume skills with job requirements
- Suggests courses and training to fill skill gaps

**Thank you
very much!**

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