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        "# Import necessary libraries\n",
        "import pandas as pd # pandas is used for data manipulation and\n",
        "analysis (working with DataFrames)\n",
        "import numpy as np # numpy is used for numerical operations,\n",
        "especially with arrays\n",
        "from sklearn.model_selection import train_test_split #\n",
        "train_test_split is for splitting data into training and testing sets\n",
        "from sklearn.ensemble import RandomForestClassifier #\n",
        "RandomForestClassifier is the machine learning model we will use\n",
        "from sklearn.preprocessing import LabelEncoder,\n",
        "MultiLabelBinarizer # LabelEncoder and MultiLabelBinarizer are for\n",
        "encoding categorical features\n",
        "from sklearn.metrics import accuracy_score,\n",
        "classification_report # These are metrics to evaluate the model's\n",
        "performance\n",
        "import re # re is used for regular expressions, useful for\n",
        "pattern matching in text (like skills)\n",
        "from io import StringIO # StringIO is used to work with string\n",
        "data as if it were a file (not directly used in the final code, but good\n",
        "to keep if needed for text processing)\n",
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        "\n",
        "# Load the dataset\n",
        "csv_url = \"/content/btech_students_career_dataset.csv\" #\n",
        "Define the path to the dataset file\n",
        "df = pd.read_csv(csv_url) # Read the CSV file into a pandas\n",
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```

GPA	Student_ID	Age	Gender	Specialization	Year_of_Study
6.89	S000001	20	Female	CE	4
8.56	S000002	22	Male	AI/ML	3
7.43	S000003	22	Male	CE	1
7.35	S000004	25	Male	AI/ML	2
9.46	S000005	24	Female	ECE	1

Aptitude_Score	Key_Skills
2	Machine Learning, Communication, Data Science
5	C++, Cloud, Python
5	DevOps, NoSQL, Java, Cybersecurity, Deep Learning
10	Cybersecurity, Python, Networking, Cloud, Deep Learning
7	Data Science, Communication, DBMS, Java, Networking

Project_Experience	Communication_Score	Internship_Experience
0	5	1
3	3	1
5	2	1
2	2	1
3	1	1

Job_Match_Score	Role_Preference	Recommended_Career_Path
77.69	Cybersecurity Analyst	Cybersecurity Analyst
55.06	Software Engineer	Software Engineer
79.42	Business Analyst	AI Engineer
58.70	Software Engineer	Software Engineer
97.13	Cloud Engineer	Software Engineer

Skill_Gap
Machine Learning
Computer Vision, NoSQL, Machine Learning
Project Management, DBMS
DevOps, Networking
Python, Computer Vision

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        "\n",
        "
        Suggested_Courses
Predicted_Job_Success  \\\n",
        "0 Course on SQL, Course on Project Management
91.66  \n",
        "1 Course on Networking
42.96  \n",
        "2 Course on C++
61.27  \n",
        "3 Course on Project Management
94.59  \n",
        "4 Course on Computer Vision
42.65  \n",
        "\n",
        " Employment_Status_Post_Graduation  \n",
        "0 Employed  \n",
        "1 Employed  \n",
        "2 Entrepreneur  \n",
        "3 Higher Studies  \n",
        "4 Employed  \n"
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    "print(df.head()) # Display the first 5 rows of the DataFrame to
get a glimpse of the data\n"
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        "<class 'pandas.core.frame.DataFrame'>\\n",
        "RangeIndex: 100000 entries, 0 to 99999\\n",
        "Data columns (total 18 columns):\\n",
        " #   Column                                Non-Null Count
Dtype  \\n",
        "---  ---
--  \\n",
        "  0   Student_ID                        100000 non-null
object \\n",
        "  1   Age                             100000 non-null
int64  \\n",
        "  2   Gender                           100000 non-null
object \\n",
        "  3   Specialization                   100000 non-null
object \\n",
        "  4   Year_of_Study                    100000 non-null
int64  \\n",
        "  5   GPA                              100000 non-null
float64\\n",
        "  6   Key_Skills                       100000 non-null
object \\n",
        "  7   Aptitude_Score                   100000 non-null
int64  \\n",
        "  8   Communication_Score              100000 non-null
int64  \\n",
        "  9   Internship_Experience             100000 non-null
int64  \\n",
        " 10   Project_Experience                100000 non-null
int64  \\n",
        " 11   Role_Preference                  100000 non-null
object \\n",
        " 12   Recommended_Career_Path           100000 non-null
object \\n",

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float64\n",
" 13  Job_Match_Score          100000 non-null
object \n",
" 14  Skill_Gap                100000 non-null
object \n",
" 15  Suggested_Courses        100000 non-null
float64\n",
" 16  Predicted_Job_Success     100000 non-null
object \n",
" 17  Employment_Status_Post_Graduation 100000 non-null
"dtypes: float64(3), int64(6), object(9)\n",
"memory usage: 13.7+ MB\n"
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100000.000000  \n",
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NaN  \n",
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NaN  \n",
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NaN  \n",
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2.495670  \n",
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1.120702  \n",
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1.000000  \n",
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2.000000  \n",

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4.000000	"75%	NaN	24.000000	NaN	NaN
	\n",				
4.000000	"max	NaN	25.000000	NaN	NaN
	\n",				
	"\n",				
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Aptitude_Score	\\\n",				
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100000.000000	\n",				
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100000.000000	\n",				
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Job_Match_Score	\\\n",				

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	"mean	NaN	NaN
74.993039	\n",		
	"std	NaN	NaN
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74.970000	\n",		
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	"50%	NaN	NaN
67.655000	\n",		
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81.210000	\n",		
	"max	NaN	NaN
95.000000	\n",		
	"\n",		
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	"unique	4	\n",
	"top	Employed	\n",
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	"std	NaN	\n",
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        "max
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                "Requirement already satisfied: cryptography>=36.0.0 in /usr/local/lib/python3.12/dist-packages (from pdfminer.six) (43.0.3)\n",
                "Requirement already satisfied: cffi>=1.12 in /usr/local/lib/python3.12/dist-packages (from cryptography>=36.0.0->pdfminer.six) (2.0.0)\n",
                "Requirement already satisfied: pycparser in /usr/local/lib/python3.12/dist-packages (from cffi>=1.12->cryptography>=36.0.0->pdfminer.six) (2.23)\n",
                "Downloading pdfminer_six-20250506-py3-none-any.whl (5.6 MB)\n",
                "\u001b[?25l  \u001b[90m\u001b[0m\u001b[32m0.0/5.6 MB\u001b[0m\u001b[31m?\u001b[0m eta \u001b[36m-:--:--\u001b[0m\r\u001b[2K\u001b[91m\u001b[0m\u001b[90m\u001b[0m\u001b[90m\u001b[0m\u001b[90m\u001b[0m\u001b[32m0.5/5.6 MB\u001b[0m \u001b[31m14.2 MB/s\u001b[0m eta \u001b[36m0:00:01\u001b[0m\r\u001b[2K  \u001b[91m\u001b[0m\u001b[90m\u001b[0m\u001b[90m\u001b[0m\u001b[90m\u001b[0m\u001b[32m3.5/5.6 MB\u001b[0m \u001b[31m50.9 MB/s\u001b[0m eta \u001b[36m0:00:01\u001b[0m\r\u001b[2K  \u001b[91m\u001b[0m\u001b[90m\u001b[0m\u001b[90m\u001b[0m\u001b[90m\u001b[0m\u001b[32m5.6/5.6 MB\u001b[0m \u001b[31m67.6 MB/s\u001b[0m eta \u001b[36m0:00:01\u001b[0m\r\u001b[2K\u001b[90m\u001b[0m\u001b[32m5.6/5.6 MB\u001b[0m \u001b[31m46.2 MB/s\u001b[0m eta \u001b[36m0:00:00\u001b[0m\n",
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                "Successfully installed pdfminer.six-20250506\n"
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```



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        "# Improved Data Cleaning and Preprocessing\n",
        "print(\\\"\\n--- Data Cleaning and Preprocessing ---\\\") # Print a  
header for this section\n",
        "\n",
        "# Convert specific columns to numeric types, coercing errors to  
NaN (Not a Number)\n",
        "# This is important for columns that should be numbers but might  
contain non-numeric data\n",
        "df['GPA'] = pd.to_numeric(df['GPA'], errors='coerce') # Convert  
'GPA' column to numeric\n",
        "df['Job_Match_Score'] = pd.to_numeric(df['Job_Match_Score'],  
errors='coerce') # Convert 'Job_Match_Score' to numeric\n",
        "df['Predicted_Job_Success'] =  
pd.to_numeric(df['Predicted_Job_Success'], errors='coerce') # Convert  
'Predicted_Job_Success' to numeric\n",
        "\n",
        "# Convert other numeric-like columns, again coercing errors to  
NaN\n",
        "df['Year_of_Study'] = pd.to_numeric(df['Year_of_Study'],  
errors='coerce') # Convert 'Year_of_Study' to numeric\n",
        "df['Aptitude_Score'] = pd.to_numeric(df['Aptitude_Score'],  
errors='coerce') # Convert 'Aptitude_Score' to numeric\n",
        "df['Communication_Score'] =  
pd.to_numeric(df['Communication_Score'], errors='coerce') # Convert  
'Communication_Score' to numeric\n",
        "df['Internship_Experience'] =  
pd.to_numeric(df['Internship_Experience'], errors='coerce') # Convert  
'Internship_Experience' to numeric\n",
        "df['Project_Experience'] =  
pd.to_numeric(df['Project_Experience'], errors='coerce') # Convert  
'Project_Experience' to numeric\n",
        "\n"
    ]

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        "# Handle missing values (NaNs) in numerical columns\n",
        "for col in ['GPA', 'Job_Match_Score', 'Predicted_Job_Success',
'Year_of_Study',\n",
        "        'Aptitude_Score', 'Communication_Score',
'Internship_Experience', 'Project_Experience']:\n",
        "        if df[col].dtype == 'float64' or df[col].dtype == 'int64': #
Check if the column is of numeric type\n",
        "        df[col] = df[col].fillna(df[col].median()) # Fill
missing numerical values with the median of the column\n",
        "\n",
        "# Handle missing values in categorical columns\n",
        "for col in ['Gender', 'Specialization', 'Key_Skills',
'Role_Preference',\n",
        "        'Recommended_Career_Path', 'Skill_Gap',
'Suggested_Courses',\n",
        "        'Employment_Status_Post_Graduation']:\n",
        "        df[col] = df[col].fillna('Unknown') # Fill missing
categorical values with the string 'Unknown'\n",
        "\n",
        "# Encode categorical features using Label Encoding\n",
        "# Label Encoding converts each unique category value into a
numerical label\n",
        "le_gender = LabelEncoder() # Initialize a LabelEncoder for
'Gender'\n",
        "df['Gender_Encoded'] = le_gender.fit_transform(df['Gender']) #
Fit and transform the 'Gender' column, creating a new 'Gender_Encoded'
column\n",
        "\n",
        "le_specialization = LabelEncoder() # Initialize a LabelEncoder
for 'Specialization'\n",
        "df['Specialization_Encoded'] =
le_specialization.fit_transform(df['Specialization']) # Fit and transform
'Specialization'\n",
        "\n",
        "le_role_preference = LabelEncoder() # Initialize a LabelEncoder
for 'Role_Preference'\n",
        "df['Role_Preference_Encoded'] =
le_role_preference.fit_transform(df['Role_Preference']) # Fit and
transform 'Role_Preference'\n",
        "\n",
        "# IMPROVED SKILL NORMALIZATION FUNCTION\n",
        "def normalize_skill(skill):\n",
        "    \"\"\"\n",
        "    Improved skill normalization that handles more variations
and synonyms\n",
        "    This function takes a skill string and returns a
standardized version.\n",
        "    \"\"\"\n",
        "    if not skill or pd.isna(skill): # Check if the skill is
empty or NaN\n",
        "        return \"\"\" # Return an empty string if the skill is
invalid\n",
        "    skill = str(skill).strip().lower() # Convert the skill to a
string, remove leading/trailing whitespace, and convert to lowercase\n",
        "    # Remove common prefixes/suffixes using regular
expressions\n",

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        "    skill =
re.sub(r'\\\\b(technologies?|tools?|skills?|languages?|frameworks?)\\\\b'
, '', skill) # Remove words like 'technology', 'tool', 'skill', etc.\n",
        "    skill = re.sub(r'^a-z0-9\\\\s&+/'', '', skill) # Remove
characters that are not letters, numbers, whitespace, &, /, +, or -
(keeps chars needed for C++, C#, .NET)\n",
        "    skill = re.sub(r'\\\\s+', ' ', skill).strip() # Replace
multiple spaces with a single space and remove leading/trailing
spaces\n",
        "\n",
        "    # Comprehensive skill mapping: defines a dictionary to map
variations of skills to a single standardized name\n",
        "    skill_mapping = {\n",
        "        # Programming Languages mappings\n",
        "        'js': 'javascript', 'nodejs': 'javascript', 'node.js':
'javascript',\n",
        "        'reactjs': 'javascript', 'react.js': 'javascript',\n",
        "        'angularjs': 'javascript', 'angular.js':
'javascript',\n",
        "        'vuejs': 'javascript', 'vue.js': 'javascript',\n",
        "        'expressjs': 'javascript', 'express.js':
'javascript',\n",
        "        'typescript': 'javascript', 'ts': 'javascript',\n",
        "        'py': 'python', 'django': 'python', 'flask':
'python',\n",
        "        'cpp': 'c++', 'cplusplus': 'c++',\n",
        "        'csharp': 'c#', 'dotnet': 'c#', '.net': 'c#',\n",
        "        'go': 'golang', 'golanglang': 'golang',\n",
        "        "\n",
        "        # ML/AI mappings\n",
        "        'ml': 'machine learning', 'ai': 'machine learning',\n",
        "        'artificial intelligence': 'machine learning',\n",
        "        'dl': 'deep learning', 'neural networks': 'deep
learning',\n",
        "        'nlp': 'natural language processing',\n",
        "        'computer vision': 'machine learning', 'cv': 'machine
learning',\n",
        "        "\n",
        "        # Cloud/DevOps mappings\n",
        "        'aws': 'cloud computing', 'amazon web services': 'cloud
computing',\n",
        "        'azure': 'cloud computing', 'microsoft azure': 'cloud
computing',\n",
        "        'gcp': 'cloud computing', 'google cloud': 'cloud
computing',\n",
        "        'google cloud platform': 'cloud computing',\n",
        "        'kubernetes': 'devops', 'k8s': 'devops', 'docker':
'devops',\n",
        "        'jenkins': 'devops', 'ansible': 'devops', 'terraform':
'devops',\n",
        "        'ci/cd': 'devops', 'continuous integration':
'devops',\n",
        "        "\n",
        "        # Databases mappings\n",
        "        'mysql': 'sql', 'postgresql': 'sql', 'postgres':
'sql',\n",
        "        'sqlite': 'sql', 'oracle': 'sql', 'mssql': 'sql',\n",
        "        'database management': 'sql', 'dbms': 'sql',

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"        'mongodb': 'nosql', 'cassandra': 'nosql', 'redis':
'nosql',\n",
"\n",
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"        'html5': 'html', 'css3': 'css', 'bootstrap': 'css',\n",
"        'rest': 'api', 'restful': 'api', 'graphql': 'api',\n",
"        'frontend': 'web development', 'front end': 'web
development',\n",
"        'backend': 'web development', 'back end': 'web
development',\n",
"        'fullstack': 'web development', 'full stack': 'web
development',\n",
"\n",
"        # Security mappings\n",
"        'infosec': 'cybersecurity', 'information security':
'cybersecurity',\n",
"        'network security': 'cybersecurity', 'cyber security':
'cybersecurity',\n",
"        'ethical hacking': 'cybersecurity', 'pen testing':
'cybersecurity',\n",
"\n",
"        # Data mappings\n",
"        'data analytics': 'data analysis', 'data engineer':
'data analysis',\n",
"        'tableau': 'data visualization', 'power bi': 'data
visualization',\n",
"        'excel': 'data analysis', 'statistics': 'data
analysis',\n",
"        'big data': 'data analysis', 'data mining': 'data
analysis',\n",
"\n",
"        # Soft Skills mappings\n",
"        'communication skills': 'communication',\n",
"        'public speaking': 'communication', 'presentation':
'communication',\n",
"        'interpersonal skills': 'communication', 'teamwork':
'communication',\n",
"\n",
"        # Project Management mappings\n",
"        'agile methodology': 'project management', 'scrum
master': 'project management',\n",
"        'pmp': 'project management', 'project planning':
'project management',\n",
"\n",
"        # UI/UX mappings\n",
"        'user interface': 'ui/ux design', 'user experience':
'ui/ux design',\n",
"        'ux/ui': 'ui/ux design', 'figma': 'ui/ux design',
'sketch': 'ui/ux design',\n",
"        'adobe xd': 'ui/ux design', 'wireframe': 'ui/ux
design',\n",
"\n",
"        # Networking mappings\n",
"        'tcpip': 'networking', 'tcp/ip': 'networking',
'routing': 'networking',\n",
"        'switching': 'networking', 'cisco': 'networking',\n",
"    }\n",
"\n",

```

```

        "    # Check for exact matches first in the skill_mapping
dictionary\n",
        "    if skill in skill_mapping:\n",
        "        return skill_mapping[skill] # Return the normalized
skill if an exact match is found\n",
        "\n",
        "    # Check for partial matches within the skill string\n",
        "    for key, value in skill_mapping.items():\n",
        "        if key in skill:\n",
        "            return value # Return the normalized skill if a part
of the skill string matches a key\n",
        "\n",
        "    # Return the original skill if no mapping found\n",
        "    return skill # If no normalization rule applies, return the
original skill\n",
        "\n",
        "# Process skills columns with improved normalization\n",
        "# Apply the normalize_skill function to each skill in the comma-
separated strings of the 'Key_Skills' column\n",
        "df['Key_Skills_Processed'] = df['Key_Skills'].apply(\n",
        "    lambda x: [normalize_skill(s) for s in str(x).split(',') if
s.strip()] # Split the string by comma, normalize each skill, and filter
out empty strings\n",
        ")\n",
        "# Apply normalization to 'Suggested_Courses', removing \"Course
on \" prefix\n",
        "df['Suggested_Courses_Processed'] =
df['Suggested_Courses'].apply(\n",
        "    lambda x: [normalize_skill(s.replace('Course on ', '')) for
s in str(x).split(',') if s.strip()] # Similar process for
Suggested_Courses\n",
        ")\n",
        "# Apply normalization to 'Skill_Gap'\n",
        "df['Skill_Gap_Processed'] = df['Skill_Gap'].apply(\n",
        "    lambda x: [normalize_skill(s) for s in str(x).split(',') if
s.strip()] # Similar process for Skill_Gap\n",
        ")\n",
        "\n",
        "# Multi-label encoding for skills\n",
        "# MultiLabelBinarizer is used to convert a list of skills for
each entry into a binary matrix\n",
        "mlb_skills = MultiLabelBinarizer() # Initialize a
MultiLabelBinarizer\n",
        "# Fit and transform the 'Key_Skills_Processed' column (list of
lists of skills)\n",
        "skills_encoded =
mlb_skills.fit_transform(df['Key_Skills_Processed'])\n",
        "# Create a new DataFrame from the encoded skills, using the
unique skills as column names\n",
        "skills_df = pd.DataFrame(skills_encoded,
columns=mlb_skills.classes_)\n",
        "# Concatenate the new skills DataFrame with the original
DataFrame 'df'\n",
        "df = pd.concat([df, skills_df], axis=1)"
    ]
},
{
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```

```

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  {
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      "\n",
      "--- Feature Engineering and Model Training ---\n",
      "Fitting 3 folds for each of 8 candidates, totalling 24
fits\n"
    ]
  },
  {
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    "name": "stderr",
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packages/joblib/externals/loky/process_executor.py:782: UserWarning: A
worker stopped while some jobs were given to the executor. This can be
caused by a too short worker timeout or by a memory leak.\n",
      " warnings.warn(\n"
    ]
  },
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      "\n",
      "Best parameters found: {'max_depth': 15, 'min_samples_leaf':
10, 'n_estimators': 250}\n",
      "Best cross-validation accuracy: 0.10\n",
      "\n",
      "Model Accuracy on Test Set: 0.10\n",
      "\n",
      "--- Top 15 Jobs and Their Required Skills ---\n",
      "Job: Cloud Engineer\n",
      "  Required Skills: cloud computing, devops, networking,
linux, python, security\n",
      "-----\n",
      "Job: Web Developer\n",
      "  Required Skills: javascript, html, css, web development,
api, database\n",
      "-----\n",
      "Job: Network Engineer\n",
      "  Required Skills: networking, linux, security\n",
      "-----\n",
      "Job: Database Administrator\n",
      "  Required Skills: sql, nosql, database, security\n",
      "-----\n",
      "Job: Cybersecurity Analyst\n",

```

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        " Required Skills: cybersecurity, networking, linux,
security\n",
        "-----\n",
        "Job: Software Engineer\n",
        " Required Skills: java, python, c++, data structures,
algorithms, devops\n",
        "-----\n",
        "Job: AI Engineer\n",
        " Required Skills: machine learning, python, data analysis,
tensorflow, pytorch\n",
        "-----\n",
        "Job: Embedded Systems Engineer\n",
        " Required Skills: c++, c, embedded systems, hardware\n",
        "-----\n",
        "Job: Business Analyst\n",
        " Required Skills: business analysis, communication, sql,
data analysis, project management\n",
        "-----\n",
        "Job: Data Analyst\n",
        " Required Skills: data analysis, sql, python, data
visualization\n",
        "-----\n",
        "Job: DevOps Engineer\n",
        " Required Skills: devops, cloud computing, linux,
automation\n",
        "-----\n",
        "Job: Mobile App Developer\n",
        " Required Skills: java, kotlin, swift, mobile development,
ui/ux design\n",
        "-----\n",
        "Job: UI/UX Designer\n",
        " Required Skills: ui/ux design, user research, graphic
design\n",
        "-----\n",
        "Job: Project Manager\n",
        " Required Skills: project management, leadership,
communication, risk management\n",
        "-----\n",
        "Job: Data Scientist\n",
        " Required Skills: data analysis, machine learning, python,
statistics\n",
        "-----\n"
    ]
}
],
"source": [
    "# Improved Feature Engineering and Model Training with
Hyperparameter Tuning\n",
    "print(\"\\n--- Feature Engineering and Model Training ---\") #
Print a header for this section\n",
    "\\n",
    "# Define the features (X) and the target variable (y)\n",
    "\\n",
    "# Numerical features identified from the dataset\n",
    "numerical_features = ['Age', 'GPA', 'Year_of_Study',
'Aptitude_Score',\n",
    "                        'Communication_Score',
'Internship_Experience',\n",

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        "Project_Experience', 'Job_Match_Score',
'Predicted_Job_Success']\n",
        "# Categorical features that have been encoded numerically\n",
        "categorical_encoded_features = ['Gender_Encoded',
'Specialization_Encoded', 'Role_Preference_Encoded']\n",
        "# Skill features created by the MultiLabelBinarizer (each unique
skill is a feature)\n",
        "skill_features = list(mlb_skills.classes_)\n",
        "\n",
        "# Combine all selected features into the feature matrix X\n",
        "X = df[numerical_features + categorical_encoded_features +
skill_features]\n",
        "# Define the target variable y as the 'Recommended_Career_Path'
column\n",
        "y = df['Recommended_Career_Path']\n",
        "\n",
        "# Encode the target variable 'Recommended_Career_Path'\n",
        "le_career_path = LabelEncoder() # Initialize a LabelEncoder for
the target variable\n",
        "y_encoded = le_career_path.fit_transform(y) # Fit and transform
the target variable, converting career path names to numerical labels\n",
        "\n",
        "# Split the data into training and testing sets\n",
        "# X_train, y_train: data for training the model\n",
        "# X_test, y_test: data for evaluating the model\n",
        "# test_size=0.2 means 20% of the data will be used for
testing\n",
        "# random_state=42 ensures the split is the same every time the
code is run\n",
        "X_train, X_test, y_train, y_test = train_test_split(X,
y_encoded, test_size=0.2, random_state=42)\n",
        "\n",
        "# Train the model with hyperparameter tuning using
GridSearchCV\n",
        "# GridSearchCV helps find the best combination of
hyperparameters for the model\n",
        "from sklearn.model_selection import GridSearchCV # Import
GridSearchCV\n",
        "\n",
        "# Define a refined parameter grid for hyperparameter tuning\n",
        "# This dictionary specifies the hyperparameters and the values
to test for each\n",
        "param_grid = {\n",
        "    'n_estimators': [150, 250], # Number of trees in the random
forest\n",
        "    'max_depth': [15, 25], # Maximum depth of each tree\n",
        "    'min_samples_leaf': [5, 10] # Minimum number of samples
required to be at a leaf node\n",
        "}\n",
        "\n",
        "# Initialize the GridSearchCV object\n",
        "grid_search =
GridSearchCV(estimator=RandomForestClassifier(random_state=42), # The
model to tune (Random Forest)\n",
        "        param_grid=param_grid, # The grid of
hyperparameters to search\n",
        "        cv=3, # Number of cross-validation
folds (data is split into 3 parts for validation)\n",

```



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        "                                n_jobs=-1, # Use all available CPU
cores for faster computation\n",
        "                                verbose=2) # Controls the verbosity:
higher values print more details\n",
        "\n",
        "# Fit the grid search to the training data\n",
        "# This process trains the model with each combination of
hyperparameters in the grid\n",
        "grid_search.fit(X_train, y_train)\n",
        "\n",
        "# Get the best parameters and the best score found by
GridSearchCV\n",
        "print(f\"\\nBest parameters found: {grid_search.best_params_}\")
# Print the combination of parameters that yielded the best results\n",
        "print(f\"Best cross-validation accuracy:
{grid_search.best_score_:.2f}\") # Print the best accuracy score achieved
during cross-validation\n",
        "\n",
        "# Use the best model found by GridSearchCV to make predictions
on the test set\n",
        "best_model = grid_search.best_estimator_ # Get the best trained
model from the grid search results\n",
        "y_pred = best_model.predict(X_test) # Use the best model to
predict career paths for the test data\n",
        "\n",
        "# Evaluate the model's performance on the test set\n",
        "print(f\"\\nModel Accuracy on Test Set: {accuracy_score(y_test,
y_pred):.2f}\") # Calculate and print the accuracy of the model on the
test data\n",
        "\n",
        "# IMPROVED JOB SKILLS MAPPING (without duplicates)\n",
        "# This dictionary maps each job role to a list of required
skills (normalized names)\n",
        "job_skills_mapping = {\n",
        "    'Cloud Engineer': ['cloud computing', 'devops',
'networking', 'linux', 'python', 'security'],\n",
        "    'Web Developer': ['javascript', 'html', 'css', 'web
development', 'api', 'database'],\n",
        "    'Network Engineer': ['networking', 'linux', 'security'],\n",
        "    'Database Administrator': ['sql', 'nosql', 'database',
'security'],\n",
        "    'Cybersecurity Analyst': ['cybersecurity', 'networking',
'linux', 'security'],\n",
        "    'Software Engineer': ['java', 'python', 'c++', 'data
structures', 'algorithms', 'devops'],\n",
        "    'AI Engineer': ['machine learning', 'python', 'data
analysis', 'tensorflow', 'pytorch'],\n",
        "    'Embedded Systems Engineer': ['c++', 'c', 'embedded
systems', 'hardware'],\n",
        "    'Business Analyst': ['business analysis', 'communication',
'sql', 'data analysis', 'project management'],\n",
        "    'Data Analyst': ['data analysis', 'sql', 'python', 'data
visualization'],\n",
        "    'DevOps Engineer': ['devops', 'cloud computing', 'linux',
'automation'],\n",
        "    'Mobile App Developer': ['java', 'kotlin', 'swift', 'mobile
development', 'ui/ux design'],\n",

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        "    'UI/UX Designer': ['ui/ux design', 'user research', 'graphic
design'],\n",
        "    'Project Manager': ['project management', 'leadership',
'communication', 'risk management'],\n",
        "    'Data Scientist': ['data analysis', 'machine learning',
'python', 'statistics']\n",
        "}\n",
        "\n",
        "# Print the list of top jobs and their required skills\n",
        "print(\"\\n--- Top 15 Jobs and Their Required Skills ---\\n\") #
Header\n",
        "for job, skills in job_skills_mapping.items(): # Iterate through
each job and its skills in the dictionary\n",
        "    print(f\"Job: {job}\") # Print the job name\n",
        "    print(f\"    Required Skills: {' '.join(skills)}\") # Print
the required skills, joined by commas\n",
        "    print(\"-\" * 40) # Print a separator line"
    ]
},
{
    "cell_type": "code",
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        "id": "RU6vWPyZAAKj",
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},
"outputs": [
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        "output_type": "stream",
        "name": "stdout",
        "text": [
            "\n",
            "--- Resume Skill Extraction (PDF) ---\n",
            "Total unique skills in vocabulary: 127\n",
            "Please upload your resume (PDF file):\n"
        ]
    },
    {
        "output_type": "display_data",
        "data": {
            "text/plain": [
                "<IPython.core.display.HTML object>"
            ],
            "text/html": [
                "\n",
                "    <input type=\"file\" id=\"files-09663437-6e45-4e6b-
85ef-22ba86e9513b\" name=\"files[]\" multiple disabled\n",
                "        style=\"border:none\" />\n",
                "    <output id=\"result-09663437-6e45-4e6b-85ef-
22ba86e9513b\">\n",
                "        Upload widget is only available when the cell has
been executed in the\n",
                "        current browser session. Please rerun this cell to
enable.\n"
            ]
        }
    }
]

```

```

"        </output>\n",
"        <script>// Copyright 2017 Google LLC\n",
"    //\n",
"    // Licensed under the Apache License, Version 2.0 (the
\"License\");\n",
"    // you may not use this file except in compliance with the
License.\n",
"    // You may obtain a copy of the License at\n",
"    //\n",
"    //      http://www.apache.org/licenses/LICENSE-2.0\n",
"    //\n",
"    // Unless required by applicable law or agreed to in
writing, software\n",
"    // distributed under the License is distributed on an \"AS
IS\" BASIS,\n",
"    // WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either
express or implied.\n",
"    // See the License for the specific language governing
permissions and\n",
"    // limitations under the License.\n",
"    \n",
"    /**\n",
"    * @fileoverview Helpers for google.colab Python
module.\n",
"    */\n",
"(function(scope) {\n",
"function span(text, styleAttributes = {}) {\n",
"    const element = document.createElement('span');\n",
"    element.textContent = text;\n",
"    for (const key of Object.keys(styleAttributes)) {\n",
"        element.style[key] = styleAttributes[key];\n",
"    }\n",
"    return element;\n",
"}\n",
"\n",
"    // Max number of bytes which will be uploaded at a
time.\n",
"const MAX_PAYLOAD_SIZE = 100 * 1024;\n",
"\n",
"function _uploadFiles(inputId, outputId) {\n",
"    const steps = uploadFilesStep(inputId, outputId);\n",
"    const outputElement =
document.getElementById(outputId);\n",
"    // Cache steps on the outputElement to make it available
for the next call\n",
"    // to uploadFilesContinue from Python.\n",
"    outputElement.steps = steps;\n",
"\n",
"    return _uploadFilesContinue(outputId);\n",
"}\n",
"\n",
"    // This is roughly an async generator (not supported in
the browser yet),\n",
"    // where there are multiple asynchronous steps and the
Python side is going\n",
"    // to poll for completion of each step.\n",
"    // This uses a Promise to block the python side on
completion of each step,\n",

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        "// then passes the result of the previous step as the
input to the next step.\n",
        "function _uploadFilesContinue(outputId) {\n",
        "    const outputElement =
document.getElementById(outputId);\n",
        "    const steps = outputElement.steps;\n",
        "\n",
        "    const next =
steps.next(outputElement.lastPromiseValue);\n",
        "    return Promise.resolve(next.value.promise).then((value)
=> {\n",
        "        // Cache the last promise value to make it available
to the next\n",
        "        // step of the generator.\n",
        "        outputElement.lastPromiseValue = value;\n",
        "        return next.value.response;\n",
        "    });\n",
        "};\n",
        "\n",
        "/*\n",
        " * Generator function which is called between each async
step of the upload\n",
        " * process.\n",
        " * @param {string} inputId Element ID of the input file
picker element.\n",
        " * @param {string} outputId Element ID of the output
display.\n",
        " * @return {!Iterable<!Object>} Iterable of next
steps.\n",
        " */\n",
        "function* uploadFilesStep(inputId, outputId) {\n",
        "    const inputElement =
document.getElementById(inputId);\n",
        "    inputElement.disabled = false;\n",
        "\n",
        "    const outputElement =
document.getElementById(outputId);\n",
        "    outputElement.innerHTML = '';\n",
        "\n",
        "    const pickedPromise = new Promise((resolve) => {\n",
        "        inputElement.addEventListener('change', (e) => {\n",
        "            resolve(e.target.files);\n",
        "        });\n",
        "    });\n",
        "\n",
        "    const cancel = document.createElement('button');\n",
        "    inputElement.parentElement.appendChild(cancel);\n",
        "    cancel.textContent = 'Cancel upload';\n",
        "    const cancelPromise = new Promise((resolve) => {\n",
        "        cancel.onclick = () => {\n",
        "            resolve(null);\n",
        "        };\n",
        "    });\n",
        "\n",
        "    // Wait for the user to pick the files.\n",
        "    const files = yield {\n",
        "        promise: Promise.race([pickedPromise,\n",
cancelPromise]),\n
```

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"    response: {\n",
"        action: 'starting',\n",
"    }\n",
"    };\n",
"\n",
"    cancel.remove();\n",
"\n",
"    // Disable the input element since further picks are not
allowed.\n",
"    inputElement.disabled = true;\n",
"\n",
"    if (!files) {\n",
"        return {\n",
"            response: {\n",
"                action: 'complete',\n",
"            }\n",
"        };\n",
"    }\n",
"\n",
"    for (const file of files) {\n",
"        const li = document.createElement('li');\n",
"        li.append(span(file.name, {fontWeight: 'bold'}));\n",
"        li.append(span(\n",
"            `(${file.type} || 'n/a') - ${file.size} bytes, `
+ \n",
"            `last modified: ${\n",
"                file.lastModifiedDate ?
file.lastModifiedDate.toLocaleDateString() : \n",
"                'n/a' - `));\n",
"        const percent = span('0% done');\n",
"        li.appendChild(percent);\n",
"\n",
"        outputElement.appendChild(li);\n",
"\n",
"        const fileDataPromise = new Promise((resolve) => {\n",
"            const reader = new FileReader();\n",
"            reader.onload = (e) => {\n",
"                resolve(e.target.result);\n",
"            };\n",
"            reader.readAsArrayBuffer(file);\n",
"        });\n",
"        // Wait for the data to be ready.\n",
"        let fileData = yield {\n",
"            promise: fileDataPromise,\n",
"            response: {\n",
"                action: 'continue',\n",
"            }\n",
"        };\n",
"    };\n",
"\n",
"    // Use a chunked sending to avoid message size limits.
See b/62115660.\n",
"    let position = 0;\n",
"    do {\n",
"        const length = Math.min(fileData.byteLength -
position, MAX_PAYLOAD_SIZE);\n",
"        const chunk = new Uint8Array(fileData, position,
length);\n",
"        position += length;\n",

```

```

        "\n",
        "        const base64 = btoa(String.fromCharCode.apply(null,
chunk));\n",
        "        yield {\n",
        "            response: {\n",
        "                action: 'append',\n",
        "                file: file.name,\n",
        "                data: base64,\n",
        "            },\n",
        "        };\n",
        "\n",
        "        let percentDone = fileData.byteLength === 0 ?\n",
        "            100 :\n",
        "            Math.round((position / fileData.byteLength) *
100);\n",
        "        percent.textContent = `${percentDone}% done`;\n",
        "\n",
        "    } while (position < fileData.byteLength);\n",
        "    }\n",
        "\n",
        "    // All done.\n",
        "    yield {\n",
        "        response: {\n",
        "            action: 'complete',\n",
        "        },\n",
        "    };\n",
        "    }\n",
        "\n",
        "scope.google = scope.google || {};\n",
        "scope.google.colab = scope.google.colab || {};\n",
        "scope.google.colab._files = {\n",
        "    _uploadFiles,\n",
        "    _uploadFilesContinue,\n",
        "};\n",
        "})(self);\n",
        "</script> "
    ]
},
"metadata": {}
},
{
    "output_type": "stream",
    "name": "stdout",
    "text": [
        "Saving Gurubasayya_myntra.pdf to Gurubasayya_myntra.pdf\n",
        "Processing file: Gurubasayya_myntra.pdf\n",
        "Extracted text length: 2545 characters\n",
        "\n",
        "Extracted skills from resume: ['sql', 'devops', 'database',
'python', 'communication', 'data visualization', 'datavisualization',
'projectmanagement', 'java', 'leadership', 'agilemethodology', 'cloud',
'javascript', 'tensorflow', 'nosql', 'api', 'cloudcomputing',
'databasemanagement', 'c', 'machine learning', 'machinelearning']\n",
        "Total skills found: 21\n"
    ]
}
],
"source": [

```

```

        "# IMPROVED Resume Skill Extraction (PDF)\n",
        "print(\"\\n--- Resume Skill Extraction (PDF) ---\") # Print a
header for this section\n",
        "\n",
        "# Create a comprehensive skill vocabulary from the dataset and
job mappings\n",
        "all_dataset_skills = set() # Initialize an empty set to store
unique skills\n",
        "# Add all processed key skills from the dataset to the set\n",
        "for skills_list in df['Key_Skills_Processed']:\n",
        "    all_dataset_skills.update(skills_list)\n",
        "# Add all processed skill gaps from the dataset to the set\n",
        "for skills_list in df['Skill_Gap_Processed']:\n",
        "    all_dataset_skills.update(skills_list)\n",
        "# Add all skills from the job skills mapping to the set\n",
        "for skills_list in job_skills_mapping.values():\n",
        "    all_dataset_skills.update(skills_list)\n",
        "\n",
        "# Add some common variations to the vocabulary for better
matching\n",
        "# This dictionary helps in recognizing different ways a skill
might be written\n",
        "additional_variations = {\n",
        "    'machine learning': ['ml', 'ai', 'artificial intelligence'],
# Variations for machine learning\n",
        "    'deep learning': ['dl', 'neural networks'], # Variations for
deep learning\n",
        "    'natural language processing': ['nlp'], # Variation for
natural language processing\n",
        "    'computer vision': ['cv'], # Variation for computer
vision\n",
        "    'cloud computing': ['aws', 'azure', 'gcp', 'cloud'], #
Variations for cloud computing platforms\n",
        "    'devops': ['ci/cd', 'docker', 'kubernetes', 'jenkins',
'ansible', 'terraform'], # Variations for DevOps tools and practices\n",
        "    'sql': ['mysql', 'postgresql', 'oracle', 'database
management', 'dbms'], # Variations for SQL and database terms\n",
        "    'nosql': ['mongodb', 'cassandra', 'redis'], # Variations for
NoSQL databases\n",
        "    'javascript': ['js', 'nodejs', 'reactjs', 'angularjs',
'vuejs', 'expressjs', 'typescript'], # Variations for JavaScript and
related frameworks\n",
        "    'python': ['py', 'django', 'flask'], # Variations for Python
and frameworks\n",
        "    'c++': ['cpp', 'cplusplus'], # Variations for C++\n",
        "    'c#': ['csharp', '.net', 'dotnet'], # Variations for C# and
.NET\n",
        "    'golang': ['go'], # Variation for Golang\n",
        "    'web development': ['frontend', 'backend', 'fullstack',
'html', 'css', 'api'], # Variations for web development terms\n",
        "    'cybersecurity': ['infosec', 'information security',
'network security', 'ethical hacking', 'pen testing'], # Variations for
cybersecurity terms\n",
        "    'data analysis': ['data analytics', 'data engineer',
'excel', 'statistics', 'big data', 'data mining'], # Variations for data
analysis terms\n",
        "    'data visualization': ['tableau', 'power bi'], # Variations
for data visualization tools\n",

```

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        "        'communication': ['communication skills', 'public speaking',
'presentation', 'interpersonal skills', 'teamwork'], # Variations for
communication skills\n",
        "        'project management': ['agile methodology', 'scrum master',
'pmp', 'project planning'], # Variations for project management terms\n",
        "        'ui/ux design': ['user interface', 'user experience',
'ux/ui', 'figma', 'sketch', 'adobe xd', 'wireframe'], # Variations for
UI/UX design terms and tools\n",
        "        'networking': ['tcpip', 'tcp/ip', 'routing', 'switching',
'cisco'], # Variations for networking terms and technologies\n",
        "        'business analysis': ['business analysis'], # Variation for
business analysis\n",
        "        'java': ['java'], # Variation for Java\n",
        "        'data structures': ['data structures'], # Variation for data
structures\n",
        "        'algorithms': ['algorithms'], # Variation for algorithms\n",
        "        'tensorflow': ['tensorflow'], # Variation for TensorFlow\n",
        "        'pytorch': ['pytorch'], # Variation for PyTorch\n",
        "        'c': ['c'], # Variation for C\n",
        "        'embedded systems': ['embedded systems'], # Variation for
embedded systems\n",
        "        'hardware': ['hardware'], # Variation for hardware\n",
        "        'kotlin': ['kotlin'], # Variation for Kotlin (for mobile
development)\n",
        "        'swift': ['swift'], # Variation for Swift (for mobile
development)\n",
        "        'mobile development': ['mobile development'], # Variation
for mobile development\n",
        "        'user research': ['user research'], # Variation for user
research\n",
        "        'graphic design': ['graphic design'], # Variation for
graphic design\n",
        "        'leadership': ['leadership'], # Variation for leadership\n",
        "        'risk management': ['risk management'], # Variation for risk
management\n",
        "        'statistics': ['statistics'], # Variation for statistics\n",
        "        'linux': ['linux'], # Variation for Linux\n",
        "        'security': ['security'], # Variation for security\n",
        "        'database': ['database'], # Variation for database\n",
        "        'automation': ['automation'] # Variation for automation\n",
        "\n",
        "}\n",
        "\n",
        "# Add all the additional variations and their normalized forms
to the comprehensive skill set\n",
        "for normalized_skill, variations in
additional_variations.items():\n",
        "    all_dataset_skills.add(normalized_skill) # Add the
normalized skill itself\n",
        "    all_dataset_skills.update(variations) # Add all the
variations of the skill\n",
        "\n",
        "\n",
        "all_possible_skills_list = list(all_dataset_skills) # Convert
the set of unique skills into a list\n",
        "print(f"Total unique skills in vocabulary:
{len(all_possible_skills_list)}") # Print the total number of unique
skills\n",

```



```

"\n",
"# Define the function to extract skills from a PDF resume\n",
"def extract_skills_from_resume(pdf_path, all_known_skills):\n",
"    \"\"\"\n",
"    Improved skill extraction from PDF resumes\n",
"    Takes a PDF file path and a list of known skills as
input.\n",
"    Returns a list of normalized skills found in the resume.\n",
"    \"\"\"\n",
"    try:\n",
"        # Import the extract_text function from
pdfminer.high_level\n",
"        # This import is placed inside the function because it's
only needed here\n",
"        from pdfminer.high_level import extract_text\n",
"\n",
"        # Extract text from the PDF file\n",
"        text = extract_text(pdf_path)\n",
"        text = text.lower() # Convert all extracted text to
lowercase for case-insensitive matching\n",
"\n",
"        # Improved text cleaning using regular expressions\n",
"        # Remove characters that are not letters, numbers,
whitespace, &, /, +, -, or .\n",
"        # Keep &, /, +, - for skills like C++, C#, .NET, C-\n",
"        text = re.sub(r'[^a-z0-9\\\\s&+/#+\\\\.\\\\-]', ' ',
text)\n",
"        text = re.sub(r'\\\\s+', ' ', text).strip() # Replace
multiple spaces with a single space and remove leading/trailing
spaces\n",
"\n",
"        print(f\"Extracted text length: {len(text)}
characters\") # Print the length of the extracted text\n",
"\n",
"        found_skills = set() # Initialize an empty set to store
the skills found in the resume\n",
"\n",
"        # Create a mapping of normalized skills to their
original variations for better matching\n",
"        skill_variations = {} # Dictionary to store normalized
skill as key and a list of its variations as value\n",
"        for skill in all_known_skills: # Iterate through all
known skills\n",
"            normalized = normalize_skill(skill) # Normalize the
current skill\n",
"            if normalized not in skill_variations:\n",
"                skill_variations[normalized] = [] # Create a new
list for the normalized skill if it doesn't exist\n",
"                skill_variations[normalized].append(skill) # Add the
original skill to the list of variations for its normalized form\n",
"\n",
"            # Check for each skill variation in the extracted
text\n",
"            for normalized_skill, variations in
skill_variations.items(): # Iterate through the normalized skills and
their variations\n",
"                if not normalized_skill: # Skip if the normalized
skill is empty\n",

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        "                continue\n",
        "\n",
        "                # Check if any variation of this skill appears in
the text\n",
        "                for variation in variations + [normalized_skill]: #
Check both original variations and the normalized form\n",
        "                # Use word boundaries (\\\\\\b) or non-
alphanumeric characters ([^a-z0-9]) to avoid partial matches\n",
        "                # re.escape() is used to escape any special
characters in the skill variation\n",
        "                pattern = r'(?:\\\\\\b|[^a-z0-9])' +
re.escape(variation) + r'(?:\\\\\\b|[^a-z0-9])'\n",
        "                if re.search(pattern, text): # Search for the
pattern in the extracted text\n",
        "                found_skills.add(normalized_skill) # Add the
normalized skill to the set of found skills if a match is found\n",
        "                break # Move to the next normalized skill
once a match is found (no need to check other variations of the same
skill)\n",
        "\n",
        "                # Additional pattern-based extraction for common skill
patterns (can be refined further)\n",
        "                # This dictionary contains regular expressions for
common ways skills might appear in text\n",
        "                skill_patterns = {\n",
        "                'python': r'python|pyhton|pythn', # Pattern for
Python and common typos\n",
        "                'javascript':
r'javascript|js|ecmascript|node\\.js|react\\.js|angular\\.js|vue\\.js|exp
ress\\.js', # Pattern for JavaScript and related technologies\n",
        "                'java': r'java(?:!script)', # Pattern for Java,
excluding 'javascript'\n",
        "                'c++': r'c\\\\\\+\\\\\\+|cpp|cplusplus', # Pattern for
C++\n",
        "                'c#': r'c#|csharp|\\.net', # Pattern for C# and
.NET\n",
        "                'sql': r'sql|mysql|postgresql|oracle|mssql', #
Pattern for SQL and related databases\n",
        "                'machine learning': r'machine
learning|ml|ai|artificial intelligence', # Pattern for Machine Learning
and AI\n",
        "                'deep learning': r'deep learning|dl|neural
networks', # Pattern for Deep Learning\n",
        "                'cloud computing': r'cloud|aws|azure|gcp', # Pattern
for Cloud Computing and major providers\n",
        "                'devops':
r'devops|ci/cd|docker|kubernetes|jenkins|ansible|terraform', # Pattern
for DevOps tools and practices\n",
        "                'networking':
r'networking|tcpip|tcp/ip|routing|switching|cisco', # Pattern for
Networking terms\n",
        "                'cybersecurity': r'cybersecurity|infosec|information
security', # Pattern for Cybersecurity terms\n",
        "                'data analysis': r'data analysis|data analytics|data
engineer|data mining', # Pattern for Data Analysis terms\n",
        "                'project management': r'project
management|pmp|agile|scrum', # Pattern for Project Management terms\n",

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        "                'ui/ux design': r'ui/ux|ui design|ux design|user
interface|user experience', # Pattern for UI/UX Design terms\n",
        "                'linux': r'linux|ubuntu|centos|unix', # Pattern for
Linux and related operating systems\n",
        "                'security': r'security', # Pattern for security\n",
        "                'database': r'database|dbms' # Pattern for database
terms\n",
        "            }\n",
        "        "\n",
        "        # Iterate through the skill patterns and search for them
in the text\n",
        "        for skill_name, pattern in skill_patterns.items():\n",
        "            # Create a full pattern with word boundaries and
case-insensitive matching\n",
        "            full_pattern = r'(?:\\\\b|^[^a-z0-9])(?:' + pattern +
r') (?:\\\\b|^[^a-z0-9])'\n",
        "            if re.search(full_pattern, text, re.IGNORECASE): #
Search for the pattern in the text, ignoring case\n",
        "                found_skills.add(normalize_skill(skill_name)) #
Add the normalized skill name to the set of found skills\n",
        "            "\n",
        "            "\n",
        "        return list(found_skills) # Return the set of found
skills as a list\n",
        "    "\n",
        "    except Exception as e:\n",
        "        print(f"Error extracting text from PDF: {e}") # Print
an error message if PDF extraction fails\n",
        "        return [] # Return an empty list in case of an error\n",
        "    "\n",
        "    # File upload and skill extraction process\n",
        "    from google.colab import files # Import the files module for
file uploads in Colab\n",
        "    print("Please upload your resume (PDF file):") # Prompt the
user to upload a file\n",
        "    uploaded = files.upload() # Initiate the file upload process\n",
        "    "\n",
        "    if uploaded: # Check if a file was successfully uploaded\n",
        "        pdf_file_name = list(uploaded.keys())[0] # Get the name of
the uploaded file\n",
        "        print(f"Processing file: {pdf_file_name}") # Print the
name of the file being processed\n",
        "        # Extract skills from the uploaded PDF using the defined
function and the comprehensive skill list\n",
        "        user_resume_skills =
extract_skills_from_resume(pdf_file_name, all_possible_skills_list)\n",
        "        print(f"\nExtracted skills from resume:
{user_resume_skills}") # Print the list of skills extracted from the
resume\n",
        "        print(f"Total skills found: {len(user_resume_skills)}") #
Print the total count of skills found\n",
        "    else: # If no file was uploaded, use simulated skills for
demonstration\n",
        "        print("No file uploaded. Using simulated skills for
demonstration.") # Inform the user that simulated skills are being
used\n",
        "        # Define a list of raw simulated skills\n",

```

```

        "        user_resume_skills_raw = ["java\\", "python\\", "sql\\",
\\"machine learning\\", "communication\\",\n",
        "                \"cloud computing\\", \"devops\\",
\\"project management\\", \"javascript\\",\n",
        "                \"html\\", \"css\\", \"data
analysis\\"]\n",
        "        # Normalize the simulated skills\n",
        "        user_resume_skills = [normalize_skill(s) for s in
user_resume_skills_raw]\n",
        "        print(f\"\\nSimulated extracted skills from resume:
{user_resume_skills}\\") # Print the normalized simulated skills"
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                "\n",
                "--- Skill Matching and Job Eligibility Prediction ---\n",
                "\n",
                "--- Job Eligibility Scores (Sorted by Score) ---\n",
                "Job: Database Administrator      Eligibility: 85.50%\n",
                "Job: Data Analyst                Eligibility: 85.50%\n",
                "Job: AI Engineer                 Eligibility: 70.50%\n",
                "Job: Web Developer              Eligibility: 60.50%\n",
                "Job: Software Engineer           Eligibility: 60.50%\n",
                "Job: Project Manager             Eligibility: 60.50%\n",
                "Job: Data Scientist              Eligibility: 60.50%\n",
                "Job: Business Analyst            Eligibility: 50.50%\n",
                "Job: Cloud Engineer              Eligibility: 43.83%\n",
                "Job: Embedded Systems Engineer  Eligibility: 35.50%\n",
                "Job: DevOps Engineer             Eligibility: 35.50%\n",
                "Job: Mobile App Developer        Eligibility: 30.50%\n",
                "Job: Network Engineer            Eligibility: 10.50%\n",
                "Job: Cybersecurity Analyst       Eligibility: 10.50%\n",
                "Job: UI/UX Designer              Eligibility: 10.50%\n",
                "\n",
                "--- Top 5 Job Recommendations ---\n",
                "1. Database Administrator: 85.50%\n",
                "2. Data Analyst: 85.50%\n",
                "3. AI Engineer: 70.50%\n",
                "4. Web Developer: 60.50%\n",
                "5. Software Engineer: 60.50%\n"
            ]
        }
    ],
    "source": [

```

```

    "# IMPROVED Skill Matching with Better Scoring\n",
    "print(\"\\n--- Skill Matching and Job Eligibility Prediction ---\n") # Print a header for this section\n",
    "\n",
    "# Define the function to predict job eligibility based on user skills and job requirements\n",
    "def predict_job_eligibility(user_skills, job_skills_map):\n",
    "    \"\\n\"\\n",
    "    Improved job eligibility prediction with better scoring\n",
    "    Calculates an eligibility score for each job role based on how well the user's skills match the required skills.\n",
    "    Takes user's skills (list) and job skills mapping (dictionary) as input.\n",
    "    Returns a dictionary of job roles and their corresponding eligibility scores.\n",
    "    \"\\n\"\\n",
    "    eligibility_scores = {} # Initialize an empty dictionary to store job eligibility scores\n",
    "    \n",
    "    # Iterate through each job role and its required skills in the job_skills_mapping\n",
    "    for job, required_skills in job_skills_map.items():\n",
    "        if not required_skills: # Check if the job has any required skills listed\n",
    "            eligibility_scores[job] = 0.0 # If no skills are required, set eligibility to 0\n",
    "            continue # Move to the next job\n",
    "        \n",
    "        # Calculate the percentage of required skills that the user possesses\n",
    "        # Count the number of skills the user has that are in the required skills list for the job\n",
    "        matched_skills = [skill for skill in user_skills if skill in required_skills]\n",
    "        # Calculate the skill match percentage: (number of matched skills / total required skills) * 100\n",
    "        skill_match_percentage = (len(matched_skills) / len(required_skills)) * 100\n",
    "        \n",
    "        # Add a bonus for having a larger number of skills overall (indicating a broader skill set)\n",
    "        # The bonus is capped at 20% and is proportional to the number of user skills\n",
    "        bonus_points = min(20, len(user_skills) * 0.5)\n",
    "        \n",
    "        # Calculate the final eligibility score by adding the bonus to the match percentage\n",
    "        # The final score is capped at 100%\n",
    "        final_score = min(100, skill_match_percentage + bonus_points)\n",
    "        eligibility_scores[job] = final_score # Store the calculated score for the current job\n",
    "    \n",
    "    return eligibility_scores # Return the dictionary of job eligibility scores\n",
    "\n",
    "# Calculate job eligibility for the user's extracted/simulated skills\n",

```

```

        "job_eligibility = predict_job_eligibility(user_resume_skills,
job_skills_mapping)\n",
        "\n",
        "# Sort the job roles by their eligibility score in descending
order\n",
        "# .items() returns a list of (key, value) pairs\n",
        "# key=lambda x: x[1] specifies that the sorting should be based
on the second element of each pair (the score)\n",
        "# reverse=True sorts in descending order\n",
        "sorted_jobs = sorted(job_eligibility.items(), key=lambda x:
x[1], reverse=True)\n",
        "\n",
        "# Print the job eligibility scores, sorted from highest to
lowest\n",
        "print(\"\\n--- Job Eligibility Scores (Sorted by Score) ---\") #
Header\n",
        "for job, score in sorted_jobs: # Iterate through the sorted list
of (job, score) pairs\n",
        "    # Print the job name and its eligibility score, formatted
for alignment\n",
        "    print(f\"Job: {job:<25} Eligibility: {score:>6.2f}%\")\n",
        "\n",
        "# Show the top 5 job recommendations based on eligibility
score\n",
        "print(f\"\\n--- Top 5 Job Recommendations ---\") # Header\n",
        "# Iterate through the first 5 entries in the sorted list, using
enumerate to get a numbered list\n",
        "for i, (job, score) in enumerate(sorted_jobs[:5], 1):\n",
        "    print(f\"{i}. {job}: {score:.2f}%\") # Print the rank, job
name, and score"
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        "# Visualize Job Eligibility Scores\n",
        "\n",
        "# Convert the job eligibility dictionary (calculated in the
previous cell) to a pandas DataFrame for easier plotting\n",
        "job_eligibility_df = pd.DataFrame(list(job_eligibility.items()),
columns=['Job Role', 'Eligibility Score'])\n",
        "\n",
        "# Sort the DataFrame by eligibility score in descending
order\n",
        "job_eligibility_df =
job_eligibility_df.sort_values(by='Eligibility Score',
ascending=False)\n",
        "\n",
        "# Import necessary libraries for plotting\n",
        "import matplotlib.pyplot as plt\n",

```

```

import seaborn as sns\n",
"\n",
"# Create a bar chart to visualize the job eligibility scores\n",
plt.figure(figsize=(14, 8)) # Set the size of the plot\n",
"# Create a bar plot using seaborn\n",
sns.barplot(x='Eligibility Score', y='Job Role',
data=job_eligibility_df, hue='Job Role', palette='viridis',
legend=False)\n",
plt.title('Job Eligibility Scores Based on Resume Skills') # Set
the title of the plot\n",
plt.xlabel('Eligibility Score (%)') # Set the label for the x-
axis\n",
plt.ylabel('Job Role') # Set the label for the y-axis\n",
plt.tight_layout() # Adjust layout to prevent labels from
overlapping\n",
plt.show() # Display the plot"
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        "\n",
        "Job: Cloud Engineer\n",
        "Skills Needed: cloud computing, networking, linux, security\n",
        "\n"
      ]
    }
  ]
}
```

```

        "Job: Web Developer\n",
        "  Skills Needed: html, css, web development\n",
        "\n",
        "Job: Network Engineer\n",
        "  Skills Needed: networking, linux, security\n",
        "\n",
        "Job: Database Administrator\n",
        "  Skills Needed: security\n",
        "\n",
        "Job: Cybersecurity Analyst\n",
        "  Skills Needed: cybersecurity, networking, linux,
security\n",
        "\n",
        "Job: Software Engineer\n",
        "  Skills Needed: c++, data structures, algorithms\n",
        "\n",
        "Job: AI Engineer\n",
        "  Skills Needed: data analysis, pytorch\n",
        "\n",
        "Job: Embedded Systems Engineer\n",
        "  Skills Needed: c++, embedded systems, hardware\n",
        "\n",
        "Job: Business Analyst\n",
        "  Skills Needed: business analysis, data analysis, project
management\n",
        "\n",
        "Job: Data Analyst\n",
        "  Skills Needed: data analysis\n",
        "\n",
        "Job: DevOps Engineer\n",
        "  Skills Needed: cloud computing, linux, automation\n",
        "\n",
        "Job: Mobile App Developer\n",
        "  Skills Needed: kotlin, swift, mobile development, ui/ux
design\n",
        "\n",
        "Job: UI/UX Designer\n",
        "  Skills Needed: ui/ux design, user research, graphic
design\n",
        "\n",
        "Job: Project Manager\n",
        "  Skills Needed: project management, risk management\n",
        "\n",
        "Job: Data Scientist\n",
        "  Skills Needed: data analysis, statistics\n"
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# Print a header for this section\n",
    "\n",
    "# Enhanced course suggestions mapping - Maps skills to suggested
courses\n",
    "# This dictionary suggests relevant courses for specific
skills\n",
    "skill_to_course_suggestions = {\n",

```

```

        "    'sql': ['Advanced SQL Course', 'Database Management
Certification', 'SQL Performance Tuning'], # Courses for SQL\n",
        "    'javascript': ['JavaScript Masterclass', 'Modern JavaScript
Development', 'React/Node.js Bootcamp'], # Courses for JavaScript\n",
        "    'python': ['Python for Data Science', 'Advanced Python
Programming', 'Python Web Development'], # Courses for Python\n",
        "    'c++': ['C++ Programming', 'Advanced C++ Concepts', 'C++ for
Embedded Systems'], # Courses for C++\n",
        "    'machine learning': ['Machine Learning Fundamentals', 'Deep
Learning Specialization', 'AI Engineering'], # Courses for Machine
Learning\n",
        "    'cloud computing': ['AWS Certification', 'Azure
Fundamentals', 'Cloud Architecture'], # Courses for Cloud Computing\n",
        "    'cybersecurity': ['Cybersecurity Fundamentals', 'Ethical
Hacking', 'Security Certification'], # Courses for Cybersecurity\n",
        "    'communication': ['Effective Communication', 'Public
Speaking', 'Business Communication'], # Courses for Communication\n",
        "    'project management': ['PMP Certification', 'Agile
Methodology', 'Project Leadership'], # Courses for Project Management\n",
        "    'data analysis': ['Data Analysis with Python', 'Data
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        "    'web development': ['Full-Stack Development', 'Frontend
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        "    'devops': ['DevOps Engineering', 'CI/CD Pipelines',
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        "    'ui/ux design': ['UI/UX Design Principles', 'User Research
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        "    'networking': ['Network Fundamentals', 'Cisco
Certification', 'Advanced Networking'], # Courses for Networking\n",
        "    'business analysis': ['Business Analysis', 'Requirements
Engineering', 'Process Modeling'], # Courses for Business Analysis\n",
        "    'java': ['Java Programming', 'Spring Framework', 'Enterprise
Java'], # Courses for Java\n",
        "    'data visualization': ['Tableau/Power BI', 'Data
Storytelling', 'Visual Analytics'], # Courses for Data Visualization\n",
        "    }\n",
        "\n",
        "# Function to analyze skill gap and suggest courses\n",
        "def analyze_skill_gap_and_suggest_courses(user_skills,
job_skills_map, skill_course_map, top_n=3):\n",
        "    \"\"\"\n",
        "        Improved skill gap analysis with better course
recommendations\n",
        "        Analyzes missing skills for each job role based on user's
skills and suggests relevant courses.\n",
        "        Takes user's skills, job skills mapping, and skill-to-course
mapping as input.\n",
        "        Returns a dictionary with skill gap analysis results for
each job.\n",
        "    \"\"\"\n",
        "    skill_gap_analysis = {} # Initialize an empty dictionary to
store skill gap analysis results\n",
        "\n",
        "    # Iterate through each job role and its required skills\n",
        "    for job, required_skills in job_skills_map.items():\n",
        "        # Identify skills that are required for the job but are
NOT in the user's skill set\n",

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        "        missing_skills = [skill for skill in required_skills if
skill not in user_skills]\n",
        "\n",
        "        suggestions = [] # Initialize an empty list to store
course suggestions for the current job\n",
        "        # Suggest courses for each identified missing skill\n",
        "        for skill in missing_skills: # Iterate through the list
of missing skills\n",
        "            if skill in skill_course_map: # Check if there are
course suggestions for the current missing skill\n",
        "                suggestions.extend(skill_course_map[skill][:2])
# Add the top 2 course suggestions for this skill to the list\n",
        "\n",
        "        # Remove duplicate course suggestions and limit the
total number of suggestions per job\n",
        "        suggestions = list(dict.fromkeys(suggestions)[:top_n] #
Use dict.fromkeys to quickly get unique items and then slice to get
top_n\n",
        "\n",
        "        # Calculate the skill match percentage for this job
(redundant with job eligibility, but kept for analysis context)\n",
        "        if required_skills: # Avoid division by zero if no
skills are required\n",
        "            match_percentage = (len(required_skills) -
len(missing_skills)) / len(required_skills) * 100\n",
        "        else:\n",
        "            match_percentage = 0.0\n",
        "\n",
        "        # Store the analysis results for the current job\n",
        "        skill_gap_analysis[job] = {\n",
        "            \"missing_skills\": missing_skills, # List of skills
the user is missing for this job\n",
        "            \"suggested_courses\": suggestions, # List of
suggested courses to fill the gap\n",
        "            \"match_percentage\": match_percentage # Percentage
of required skills the user has\n",
        "        }\n",
        "\n",
        "        return skill_gap_analysis # Return the dictionary containing
skill gap analysis for all jobs\n",
        "\n",
        "# Perform skill gap analysis using the user's extracted skills
and the job skills mapping\n",
        "skill_gaps =
analyze_skill_gap_and_suggest_courses(user_resume_skills,
job_skills_mapping, skill_to_course_suggestions)\n",
        "\n",
        "# Print the skill gap analysis results, focusing on jobs with
missing skills\n",
        "print(\"\\n--- Skill Gap Analysis (Missing Skills) ---\") #
Header\n",
        "for job, analysis in skill_gaps.items(): # Iterate through the
skill gap analysis results for each job\n",
        "    if analysis[\"missing_skills\"]: # Check if the job has any
missing skills\n",
        "        print(f\"\\nJob: {job}\") # Print the job name\n",

```

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        print(f" Skills Needed: {'',
'.join(analysis['missing_skills'])}\") # Print the list of missing
skills, joined by commas"
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        "\n",
        "# Define the list of numerical features to visualize\n",
        "numerical_features = ['Age', 'GPA', 'Aptitude_Score',
'Communication_Score', 'Year_of_Study']\n",
        "# Create a figure and a set of subplots for the histograms\n",
        "# nrows=2, ncols=3 creates a 2x3 grid of plots\n",
        "# figsize sets the size of the figure\n",
        "fig, axes = plt.subplots(nrows=2, ncols=3, figsize=(18, 10))\n",
        "axes = axes.flatten() # Flatten the 2D array of axes into a 1D
array for easier iteration\n",
        "\n",
        "# Create a histogram for each numerical feature\n",
        "for i, col in enumerate(numerical_features): # Iterate through
the numerical features with their index\n",
        "    # Create a histogram using seaborn's histplot\n",
        "    # data=df: specify the DataFrame\n",
        "    # x=col: specify the column for the x-axis\n",
        "    # kde=True: overlay a kernel density estimate line\n",
        "    # bins=20: divide the data into 20 bins\n",
        "    # ax=axes[i]: specify the subplot to draw on\n",
        "    sns.histplot(data=df, x=col, kde=True, bins=20,
ax=axes[i])\n",
        "    axes[i].set_title(f'Distribution of {col}') # Set the title
for the current subplot\n",
        "\n",
        "# Remove any unused subplots if the number of features is less
than the number of subplots created\n",
        "for j in range(i + 1, len(axes)): # Iterate through the
remaining axes indices\n",
        "    fig.delaxes(axes[j]) # Delete the unused subplot\n",
        "\n",
        "plt.tight_layout() # Adjust subplot parameters for a tight
layout, preventing titles/labels from overlapping\n",
        "plt.show() # Display the figure with the histograms\n",
        "\n",
        "# Create countplots for categorical features\n",
        "\n",
        "# Define the list of categorical features to visualize\n",
        "categorical_features = ['Gender', 'Specialization']\n",
        "# Create a figure and a set of subplots for the countplots\n",
        "# nrows=1, ncols=2 creates a 1x2 grid of plots\n",

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    "# figsize sets the size of the figure\n",
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    "axes = axes.flatten() # Flatten the 2D array of axes into a 1D
array for easier iteration\n",
    "\n",
    "# Create a countplot for each categorical feature\n",
    "for i, col in enumerate(categorical_features): # Iterate through
the categorical features with their index\n",
    "    # Create a countplot using seaborn's countplot\n",
    "    # data=df: specify the DataFrame\n",
    "    # x=col: specify the column for the x-axis\n",
    "    # ax=axes[i]: specify the subplot to draw on\n",
    "    sns.countplot(data=df, x=col, ax=axes[i])\n",
    "    axes[i].set_title(f'Distribution of {col}') # Set the title
for the current subplot\n",
    "    if col == 'Specialization': # For the 'Specialization' plot,
rotate the x-axis labels\n",
    "        axes[i].tick_params(axis='x', rotation=45) # Rotate x-
axis labels by 45 degrees\n",
    "\n",
    "plt.tight_layout() # Adjust subplot parameters for a tight
layout\n",
    "plt.show() # Display the figure with the countplots"
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    "# This list comprehension iterates through each list of skills in the column and collects all individual skills\n",
    "all_skills = [skill for sublist in df['Key_Skills_Processed'] for skill in sublist]\n",
    "\n",
    "# Calculate the frequency (count) of each unique skill\n",
    "skill_counts = pd.Series(all_skills).value_counts() # Create a pandas Series from the list of skills and use value_counts() to count occurrences\n",
    "\n",
    "# Select the top N most frequent skills for visualization\n",
    "top_n = 30 # Define the number of top skills to visualize\n",
    "top_skills = skill_counts.head(top_n) # Get the top N skills and their counts\n",
    "\n",
    "# Create a bar chart to visualize the top skills and their frequencies\n",
    "plt.figure(figsize=(15, 8)) # Set the size of the plot\n",
    "sns.barplot(x=top_skills.index, y=top_skills.values) # Create a bar plot with skill names on the x-axis and counts on the y-axis\n",
    "plt.title(f'Top {top_n} Most Frequent Key Skills') # Set the title of the plot\n",
    "plt.xlabel('Skill') # Set the label for the x-axis\n",
    "plt.ylabel('Frequency') # Set the label for the y-axis\n",
    "plt.xticks(rotation=45, ha='right') # Rotate x-axis labels by 45 degrees for better readability, aligning to the right\n",
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