**AI/ML Project Problem statements**

1. Develop a machine learning model for real-time facial recognition in crowded environments.
2. Implement an image segmentation algorithm to identify and classify different types of cancer cells in medical images.
3. Design a system to detect and track objects of interest in satellite imagery for environmental monitoring.
4. Create a video summarization tool that automatically extracts key events from surveillance footage.
5. Build a model to predict the aesthetic quality of photographs based on visual features.
6. Develop a gesture recognition system to interpret sign language from video inputs.
7. Implement a machine learning model to enhance low-resolution images without losing quality.
8. Design an algorithm to automatically generate captions for images based on their content.
9. Create a system for real-time emotion detection from facial expressions in video streams.
10. Build a tool to detect and classify different types of objects in underwater videos for marine biology research.
11. Develop a chatbot that can provide technical support based on user queries.
12. Build a model to predict the next word in a sentence using recurrent neural networks (RNNs).
13. Implement a system for automatic translation between low-resource languages.
14. Create a sentiment analysis tool that can analyze customer feedback to predict satisfaction levels.
15. Design an algorithm to detect and classify fake news articles based on textual content.
16. Develop a tool for automated summarization of legal documents or contracts.
17. Build a question-answering system that can retrieve answers from a large corpus of text.
18. Implement a model to classify emails as spam or non-spam based on their content.
19. Create a system to automatically generate human-like text based on given prompts (text generation).
20. Develop a chatbot that can provide personalized customer service and support for an e-commerce website.
21. Create an intelligent personal assistant that can help users manage their schedules, set reminders, and perform various tasks.
22. Build a language translation chatbot that can accurately translate conversations between multiple languages.
23. Develop a sentiment analysis chatbot that can detect and analyze the emotional tone of user messages.
24. Design a recommendation system chatbot that can suggest products, services, or content based on user preferences and behavior.
25. Implement a question-answering chatbot that can provide accurate and relevant information to users' queries.
26. Develop an automated email response chatbot that can handle common customer inquiries and generate appropriate responses.
27. Create a chatbot that can provide mental health support and guidance to users in need.
28. Build an educational chatbot that can assist students with learning and tutoring in various subjects.
29. Develop a chatbot that can help users plan and organize events, such as meetings, parties, or conferences.
30. Design a travel planning and booking chatbot that can recommend destinations, flights, hotels, and activities based on user preferences.
31. Implement a financial advice and budgeting chatbot that can help users manage their personal finances.
32. Create a recipe recommendation and meal planning chatbot that can suggest meals based on user dietary preferences and constraints.
33. Develop a job search and career advice chatbot that can assist users in finding suitable job opportunities and provide guidance on career development.
34. Build a home automation and smart home control chatbot that can help users manage their connected devices and appliances.
35. Design a fitness and wellness tracking chatbot that can monitor user activity, provide personalized workout plans, and offer health-related advice.
36. Implement a news and information delivery chatbot that can curate and deliver relevant news and updates to users.
37. Create a social media integration chatbot that can help users manage their online presence and interactions across various platforms.
38. Develop a task management and to-do list chatbot that can help users organize their daily tasks and activities.
39. Build an online shopping and product recommendation chatbot that can suggest relevant products based on user preferences and browsing history.
40. Design a virtual pet care and companionship chatbot that can provide users with a unique and engaging pet-like experience.
41. Implement a language learning and practice chatbot that can help users improve their language skills through interactive conversations.
42. Create a creative writing and storytelling chatbot that can assist users in developing their creative writing abilities.
43. Develop a scientific research and data analysis chatbot that can help researchers gather, analyze, and interpret data.
44. Build a legal advice and document assistance chatbot that can provide users with basic legal guidance and help with document preparation.
45. Design a medical diagnosis and symptom checking chatbot that can help users identify potential health issues and provide initial guidance.
46. Implement a mental health support and therapy chatbot that can offer counseling and coping strategies to users in need.
47. Create an HR and employee onboarding chatbot that can assist new hires with the onboarding process and answer common HR-related questions.
48. Develop a project management and team collaboration chatbot that can help organize and coordinate team tasks and communication.
49. Build an online dating and matchmaking chatbot that can help users find compatible partners based on their preferences and interests.
50. Design a music recommendation and playlist chatbot that can suggest new music and create personalized playlists for users.
51. Implement a sports news and analysis chatbot that can provide users with the latest updates, statistics, and insights on their favorite teams and players.
52. Create a weather forecasting and updates chatbot that can deliver accurate and timely weather information to users.
53. Develop an emergency response and disaster relief chatbot that can provide critical information and guidance during crisis situations.
54. Build an educational assessment and feedback chatbot that can evaluate student performance and provide personalized feedback.
55. Design an HR and employee training chatbot that can deliver interactive and engaging training modules to employees.
56. Implement a marketing and lead generation chatbot that can help businesses attract and qualify potential customers.
57. Create a sales and customer support chatbot that can assist users with product inquiries, order placement, and post-purchase support.
58. Develop a social media management and engagement chatbot that can help businesses and individuals manage their online presence and interactions.
59. Build an event ticketing and registration chatbot that can streamline the process of event registration and ticket sales.
60. Design a real estate and property search chatbot that can help users find and evaluate potential properties based on their criteria.
61. Implement a travel planning and booking chatbot that can assist users in planning and booking their trips, including flights, accommodations, and activities.
62. Create a personal finance and budgeting chatbot that can help users manage their income, expenses, and savings.
63. Develop a home automation and smart home control chatbot that can enable users to control and monitor their connected devices and appliances.
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94. Build a news and information delivery chatbot that can curate and deliver relevant news and updates to users.
95. Design a social media integration chatbot that can help users manage their online presence and interactions across various platforms.
96. Implement a task management and to-do list chatbot that can help users organize their daily tasks and activities.
97. Develop a chatbot that can assist users with personal or professional creativity and ideation, providing prompts, brainstorming techniques, and feedback to help generate new ideas and solutions.
98. Develop a chatbot that can provide personalized financial planning and investment advice to users.
99. Create a chatbot that can assist users with tax preparation and filing, including answering common tax-related questions.
100. Design a chatbot that can help small businesses with various administrative tasks, such as invoicing, payroll, and bookkeeping.
101. Implement a chatbot that can provide personalized nutritional advice and meal planning based on user dietary requirements and preferences.
102. Build a chatbot that can help users manage their personal health records, including scheduling appointments and tracking medical history.
103. Develop a chatbot that can assist users with home improvement and DIY projects, providing step-by-step guidance and recommendations.
104. Create a chatbot that can help users plan and organize their personal or professional events, such as weddings, conferences, or team-building activities.
105. Design a chatbot that can provide personalized career coaching and job search assistance, including resume review and interview preparation.
106. Implement a chatbot that can help users manage their personal or professional networking, facilitating introductions and connecting with relevant contacts.
107. Build a chatbot that can assist users with personal development and goal-setting, providing motivation, accountability, and progress tracking.
108. Develop a chatbot that can help users plan and organize their travel itineraries, including booking flights, hotels, and activities.
109. Create a chatbot that can provide personalized educational content and tutoring support for students of all ages and levels.
110. Design a chatbot that can help users manage their personal or professional schedules, including appointment scheduling and calendar management.
111. Implement a chatbot that can assist users with personal or professional project management, including task tracking, resource allocation, and progress reporting.
112. Build a chatbot that can provide personalized mental health support and counseling, offering coping strategies and referrals to professional resources.
113. Develop a chatbot that can help users manage their personal or professional social media presence, including content creation, scheduling, and engagement.
114. Create a chatbot that can provide personalized home security and automation recommendations, including integration with smart home devices.
115. Design a chatbot that can assist users with personal or professional document management, including file storage, organization, and sharing.
116. Implement a chatbot that can help users manage their personal or professional learning and development, including course recommendations and progress tracking.
117. Build a chatbot that can provide personalized entertainment recommendations, such as movies, TV shows, books, or music, based on user preferences.
118. Develop a chatbot that can assist users with personal or professional productivity, including task prioritization, time management, and workflow optimization.

100. Create a chatbot that can help users manage their personal or professional well-being, including stress management, mindfulness practices, and self-care strategies.

1. Build a tool to identify and extract named entities (such as names, organizations) from textual data.
2. Develop a predictive model for early detection of diseases based on patient medical records.
3. Design a system to analyze medical images (MRI, CT scans) for detecting abnormalities.
4. Build a model to predict patient outcomes (e.g., recovery time, likelihood of complications) after surgery.
5. Implement a tool for personalized medicine to recommend treatment plans based on genetic profiles.
6. Create a system for drug discovery and repurposing using machine learning algorithms.
7. Develop a model to predict the progression of Alzheimer's disease based on neuroimaging data.
8. Design a tool to classify skin lesions in dermatology images for early detection of skin cancer.
9. Build a system to predict the risk of cardiovascular diseases based on lifestyle and genetic factors.
10. Implement a model to analyze EEG signals for detecting and predicting epileptic seizures.
11. Create a tool to automate the annotation and analysis of histopathology slides for cancer diagnosis.
12. Build a stock market prediction model based on historical market data and news sentiment analysis.
13. Develop a fraud detection system for credit card transactions using anomaly detection techniques.
14. Implement a model to predict customer churn in a subscription-based business.
15. Design a recommendation system for personalized financial products (e.g., loans, insurance).
16. Build a tool to analyze and classify financial news articles based on market impact.
17. Create a system for automated trading based on real-time market data and algorithmic predictions.
18. Implement a model to forecast real estate prices based on historical sales data and economic indicators.
19. Design a tool to optimize supply chain management using predictive analytics.
20. Build a model to analyze sentiment and predict trends in social media discussions related to brands.
21. Develop a tool for credit scoring and risk assessment based on customer data and financial history.
22. Create a reinforcement learning algorithm for autonomous navigation of drones in dynamic environments.
23. Implement computer vision algorithms for object detection and recognition in robotic applications.
24. Design a system for human-robot interaction using natural language understanding and generation.
25. Build a model for predictive maintenance of industrial machinery based on sensor data.
26. Develop a robot control system for performing complex tasks in unstructured environments.
27. Implement a system for autonomous agricultural operations, such as crop monitoring and harvesting.
28. Design a robotic system for underwater exploration and environmental monitoring.
29. Build a model for gesture recognition to enable intuitive control of robotic arms or prosthetic devices.
30. Develop a reinforcement learning agent for optimizing energy efficiency in smart homes or buildings.
31. Create a system for collaborative robots (cobots) to work safely alongside humans in manufacturing settings.

**Reference project from github:**

### **Project -1: Fake News Detection using machine learning**

# Abstract:

This Project comes up with the applications of NLP (Natural Language Processing) techniques for detecting the 'fake news', that is, misleading news stories that comes from the non-reputable sources. Only by building a model based on a count vectorizer (using word tallies) or a (Term Frequency Inverse Document Frequency) tfidf matrix

# Outcome of the project:

# To detect the fake news, which is a classic text classification problem with a straight forward.proposition. It is needed to build a model that can differentiate between “Real” news and “Fake” news.

# Project Prerequisites

* 1. Python 3.7.4
  2. IDE Jupyter

Required frameworks are

# Python

# numpy

# pandas

# itertools

# matplotlib

# sklearn

# **Project -2: Recognize the facial emotions using neural network**

# Abstract:

Recognizing the emotional state of a human from his/her facial gestures is a very challenging task with wide ranging applications in everyday life. In this project we present an emotion detection system developed to automatically recognize basic emotional states from human facial expressions

# Outcome of the project:

Automatically recognize basic emotional states from human facial expressions

# Project Prerequisites

* 1. Python 3.7.4
  2. IDE Jupyter

Required frameworks are

# Python

# numpy

# pandas

# itertools

# matplotlib

# sklearn

# **Project-3: Simulation of 8-puzzlegame**

Description: The 8-puzzle is a sliding puzzle that consists of a frame of numbered square tiles in random order with one tile missing. The more general n-puzzle is a classical problem which can be solved using graph search techniques. The problem of finding the optimal solution is NP-hard. For using the uninformed search techniques, the problem is converted into a game tree and all of the states are examined till we find the goal. In case of informed search techniques, we do not examine all of the states. Essentially, a search tree which is a component of the game tree is built. In a search tree, we make use of an appropriate heuristic which guides us to take a decision from a current state to the next state in an intelligent manner and hence the state space is significantly reduced resulting in memory and time optimization.

## Outcome:

* Student should analyze the performance of various informed and uninformed search techniques for finding the optimal solution for a solvable goal state of the 8puzzle.

# **Project-4: Professional chat application based on natural language processing**

Description: There has been an emerging trend of a vast number of chat applications which are present in the recent years to help people to connect with each other across different mediums, like Hike, WhatsApp, Telegram ,etc. The proposed network-based android chat application used for chatting purpose with remote clients or users connected to the internet, and it will not let the user send inappropriate messages. This project proposes the mechanism of creating professional chat application that will not permit the user to send inappropriate or improper messages to the participants by incorporating base level implementation of natural language processing(NLP).Before sending the messages to the user, the typed message evaluated to find any inappropriate terms in the message that may include vulgar words, etc., using natural language processing. The user can build own dictionary which contains vulgar or irrelevant terms. After pre-processing steps of removal of punctuations, numbers, conversion of text to lower case and NLP concepts of removing stop words, stemming, tokenization, named entity recognition and parts of speech tagging, it gives keywords from the user typed message. These derived keywords compared with the terms in the dictionary to analyze the sentiment of the message. If the context of the message is negative, then the user is not permitted to send the message.

## Outcome:

* Student will implement the chat application using NLP concepts and analyze the NLP steps using R or Python language libraries.

# **Project-5: Machine Learning Program to Solve Geometry Analogy Problems**

Description: Many intelligence tests contain so-called geometric analogy problems. The test person is presented with a figure as follow:

A group of black squares with different shapes

Description automatically generated

Now the task is to choose one of the figures 1 to 5 such that how the first figure in row one is related to second figure in the same row and in similar manner how the third figure is related to the chosen figure 1 to 5 in second row. The goal of this project is develop and test a program that can solve this type of problems. The idea of the algorithm is sketched Suppose the algorithm is presented with above simple problem. Then the program will make a rule for howA is related to B, and rules for how C is related to each of the possible answer figures (1-5).Among the rules that tell how C is related to the possible answers the rule that best matches the A to B rule is used to identify the best answer. Each rule consists of two parts. The first part describes the relations between the individual objects of a figure. An object may be to the left, inside, or above another object. The second part describes how the objects in one figure may be transformed into the objects in another figure. An object may be scaled, rotated, reflected, or undergo a transformation, which is a combination of these transformations. The rules are represented by means called semantics.

## Outcome:

* Student will apply the knowledge representation in solving analogy problems and develop machine learning solution for solving this type of problems.

# **Project -6: MNIST Digit Classification Machine Learning**

# **Abstract:**

A human learns to perform a task by practicing and repeating it again and again so that it memorizes how to perform the tasks. Then the neurons in the brain automatically trigger and they can quickly perform the task they have learned.

Source of Input:https://[www.kaggle.com/sachinpatel21/az-handwritten-alphabets-in-csv-format](http://www.kaggle.com/sachinpatel21/az-handwritten-alphabets-in-csv-format)

# Outcome of the project:

The MNIST digit classification enables machines to recognize handwritten digits.

# Project Prerequisites

* 1. Python 3.7.4
  2. IDE Jupyter

Required frameworks are

1. Numpy (version 1.16.5)
2. cv2 (openCV) (version 3.4.2)
3. Keras (version 2.3.1)
4. Tensorflow (Keras uses TensorFlow in backend and for some image preprocessing) (version 2.0.0)
5. Matplotlib (version 3.1.1)
6. Pandas (version 0.25.1)

**Project 7: Develop a framework for Neural Network implementation, run a basic single layer feed forward network.**

Description:

Create your own neural network back propagation network, create functions which support this functionality.

Try to create a single neuron and train the network with single neuron on some training data [X,Y] and predict an output for given unknown [X].

1. Classification of cat vs non-cat basic Machine learning classifier implementation from scratch using above framework

Description:

Built your own classifier which can differentiate cat and non-cat images on label data.

1. Python Pandas/Matplotlib driven data analytics application

Description:

Use the pandas / Matplotlib package offered statistical functions to built data analytical operations like rollup, cube, set operations

**Project 8: Read Barcode data with python and openMV framework**

Description:

This project expects students to come up with a code where a mobile is used to scan the barcode data of product using OpenMV Framework.

1. Live video Streaming over network using opencv and ImageZMQ frameworks in python.

Description:

This project aims to write a script of python which streams video using Opencv and ImageZMQ frameworks.

1. Build a raspberry pi security camera with openCV and try to find out a new persons entering into your home.

Description:

This project expects students to code a raspberry with a security camera using Opencv, populate the database and simultaneously find out strange persons entering home.

1. Smart Plant monitor for Indoor plants.

Description:

This project expects students to come up with a monitoring system which waters indoor plants based on the moisture level of smart plant.

# **Project 9: Lung Cancer Detection using Decision Tree Algorithm**

# Abstract:

Lung cancer, also known as lung carcinoma a malignant lung tumor characterized by uncontrolled cell growth in tissues of the lung. If left untreated, this growth can spread beyond the lung by the process of metastasis into nearby tissue or other parts of the body. Most cancers that start in the lung, known as primary lung cancers, are carcinomas. An approach to detect the lungs cancer by Decision tree algorithm.

Source of Input:

https://archive.ics.uci.edu/ml/datasets/Lung+Cancer

# Outcome of the project:

Automate the classification process for the detection of Lung cancer using decision tree algorithm.

# Project Prerequisites

* 1. Python 3.7.4
  2. IDE Jupyter

Required frameworks are

1. Numpy (version 1.16.5)
2. cv2 (openCV) (version 3.4.2)
3. Keras (version 2.3.1)
4. Tensorflow (Keras uses TensorFlow in backend and for some image preprocessing) (version 2.0.0)
5. Matplotlib (version 3.1.1)
6. Pandas (version 0.25.1)

**Project 10: Develop a website for maintaining an electronic store using FLAKS or DJANGO framework**

Description: Today in this covid-19 pandemic all most everything is going online for purchasing, hence you are motivate to develop a full fledge website to maintain all types of transactions using online electronic store like purchase, payment and maintenance of store (warehouse).

Python twitter database analysis applications

Description: The Twitter online database applications to explore friends / search twits and connections / twitter stream search.

**Additional projects:**

|  |  |
| --- | --- |
| SI.No | Course Project Title |
| 1. | AI Smart chatbot for Institute information |
| 2. | Recommender system for CSE books |
| 3. | Next word predicting editor |
| 4. | Automatic attendance using face detection |
| 5. | Price negotiating chatboat |
| 6. | Targeted advertising suggested system |
| 7. | Reinforcement based learning system |
| 8. | Tic-Tac-Toe gamer using mini-max model |
| 9. | Tower of Hanoi solution using mini-max  model |
| 10. | Smart trip planner |

**100 AIML project ideas:**

1. Chatbot for customer service

2. Intelligent personal assistant

3. Language translation chatbot

4. Sentiment analysis chatbot

5. Recommendation system chatbot

6. Question-answering chatbot

7. Automated email response chatbot

8. Chatbot for mental health support

9. Chatbot for education and tutoring

10. Chatbot for event planning and scheduling

11. Chatbot for travel planning and booking

12. Chatbot for financial advice and budgeting

13. Chatbot for recipe recommendations and meal planning

14. Chatbot for job search and career advice

15. Chatbot for home automation and smart home control

16. Chatbot for fitness and wellness tracking

17. Chatbot for news and information delivery

18. Chatbot for social media integration

19. Chatbot for task management and to-do lists

20. Chatbot for online shopping and product recommendations

21. Chatbot for virtual pet care and companionship

22. Chatbot for language learning and practice

23. Chatbot for creative writing and storytelling

24. Chatbot for scientific research and data analysis

25. Chatbot for legal advice and document assistance

26. Chatbot for medical diagnosis and symptom checking

27. Chatbot for mental health support and therapy

28. Chatbot for HR and employee onboarding

29. Chatbot for project management and team collaboration

30. Chatbot for online dating and matchmaking

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