Computer Science and Engineering

List of Projects for 3 rd year

SNO	Project Categories	Project Title	Preferred Technology	Related Subjects
1	Micro	Iris Flowers Classification Project	Python etc	Machine Learning
2	Micro	Housing Prices Prediction Project	Python etc	Machine Learning
3	Micro	Loan Prediction using Machine Learning	Python etc	Machine Learning
4	Micro	Emojify – Create your own emoji with Python	Python etc	Machine Learning
5	Micro	Cartoonify Image with Machine Learning	Python etc	Machine Learning
6	Micro	Pneumonia Detection with Python	Python etc	Artificial Inteligence
7	Micro	Animal Species Prediction	Python etc	Artificial Inteligence
8	Micro	Fake Product Review Identification	Python etc	Artificial Inteligence
9	Micro	Autocorrect Tool	Python etc	Artificial Inteligence
10	Micro	Teachable Machine	Python etc	Artificial Inteligence
11	Micro	Heart Disease Prediction	Python etc	Artificial Inteligence
12	Micro	Kidney stone detection	Python etc	Artificial Inteligence
13	Micro	Grayscaling Images	MATLAB etc	Digital Image Processing
14	Micro	Image Smoothing	MATLAB etc	Digital Image Processing
15	Micro	Edge Detection	MATLAB etc	Digital Image Processing
16	Micro	Skew Correction	MATLAB etc	Digital Image Processing
17	Micro	Image Compression using MATLAB	MATLAB etc	Digital Image Processing

18	Micro	Program to read an image and display it on the screen.	MATLAB etc	Digital Image Processing
19	Micro	Program to determine image negative.	MATLAB etc	Digital Image Processing
20	Micro	filtering operations (Average, Median etc.)	MATLAB etc	Digital Image Processing
21	Micro	Program to create motion blur.	MATLAB etc	Digital Image Processing
22	Micro	Program performs gray level slicing without background.	MATLAB etc	Digital Image Processing
23	Micro	enhancement and brightness suppression of an image.	MATLAB etc	Digital Image Processing
24	Micro	find histogram value and display histograph of a grayscale and color	MATLAB etc	Digital Image Processing
25	Micro	Read an RGB image and segment it using threshold method.	MATLAB etc	Digital Image Processing
26	Micro	colour image into red green and blue planes.	MATLAB etc	Digital Image Processing
27	Micro	Perform gamma correction for the given colour image	MATLAB etc	Digital Image Processing
28	Micro	Program to perform different image conversion techniques	MATLAB etc	Digital Image Processing
29	Micro	To create a color image and perform read and write operation	MATLAB etc	Digital Image Processing
30	Micro	concatenation and repetition operations on Python built-in data types: Strings,	Python etc	Data Science
31	Micro	Solve problems using decision and looping statements.	Python etc	Data Science
32	Micro	Strings, List, Tuples, Dictionary, Set and their methods to solve any given	Python etc	Data Science
33	Micro	Handle numerical operations using math and random number functions.	Python etc	Data Science
34	Micro	Indexing, Slicing, Reshaping, Joining and Splitting.	Python etc	Data Science
35	Micro	the following substitution techniques I. Ceaser cipher II. Hill Cipher	C++/Java etc	Information Security
36	Micro	using following transposition techniques Rail fence - Row & Column	C++/Java etc	Information Security
37	Micro	Implement Playfair Cipher with key entered by user.	C++/Java etc	Information Security

38	Micro	Implement polyalphabetic Cipher	C++/Java etc	Information Security
39	Micro	Implement AutoKey Cipher	C++/Java etc	Information Security
40	Micro	Implement Hill Cipher.	C++/Java etc	Information Security
41	Micro	the number of characters, words, and lines in a file.	C etc	Compiler Design
42	Micro	that recognize identifiers, constants, and operators of the mini language.	C etc	Compiler Design
43	Micro	that recognize identifiers, constants, and operators of the mini language.	C etc	Compiler Design
44	Micro	language. The lexical analyzer should ignore redundant spaces, tabs and new	C etc	Compiler Design
45	Macro	Fake News Detection Project	Python etc	Machine Learning
46	Macro	Bitcoin Price Predictor Project	Python etc	Machine Learning
47	Macro	Music Genre Classification Machine Learning Project	Python etc	Machine Learning
48	Macro	Wine Quality Test Project	Python etc	Machine Learning
49	Macro	Stock Price Prediction using Machine Learning	Python etc	Machine Learning
50	Macro	Resume Parser	Python etc	Artificial Inteligence
51	Macro	Fake News Detector	Python etc	Artificial Inteligence
52	Macro	Translator App	Python etc	Artificial Inteligence
53	Macro	Instagram Spam Detection	Python etc	Artificial Inteligence
54	Macro	Object Detection System	Python etc	Artificial Inteligence
55	Macro	Image Effect Filters	MATLAB etc	Digital Image Processing
56	Macro	Face Detection	MATLAB etc	Digital Image Processing
57	Macro	Image to Text Conversion using MATLAB	MATLAB etc	Digital Image Processing

58	Macro	Watermarking	MATLAB etc	Digital Image Processing
59	Macro	Image Classification using MATLAB	MATLAB etc	Digital Image Processing
60	Macro	Cloud-Enabled Attendance System	AWS,JAVA,MySQL,etc	Cloud Computing
61	Macro	Cloud-Enabled Bookstore System	AWS,JAVA,MySQL,etc	Cloud Computing
62	Macro	Online Blood Bank System	AWS,JAVA,MySQL,etc	Cloud Computing
63	Macro	and show them using sub plotting operation.	MATLAB etc	Digital Image Processing
64	Macro	perform different filtering operations (Average, Median etc.)	MATLAB etc	Digital Image Processing
65	Macro	Implement Smart selfie using image processing techniques.	MATLAB etc	Digital Image Processing
66	Macro	Object detection (eg. Face mask, Number plate etc.)	MATLAB etc	Digital Image Processing
67	Macro	Bookshop management system using Image processing techniques	MATLAB etc	Digital Image Processing
68	Macro	Real time sentiment analysis.	MATLAB etc	Digital Image Processing
69	Macro	Apply image segmentation techniques on original image given by the user.	MATLAB etc	Digital Image Processing
70	Macro	image using Histogram equalization techniques.	MATLAB etc	Digital Image Processing
71	Macro	Implement a GUI for Edge detection (Sobel, Prewitt, Canny etc.)	MATLAB etc	Digital Image Processing
72	Macro	Implement a regressor for any Medical disease diagnosis.	Python etc	Machine Learning
73	Macro	Implement a Cervical Cancer Risk Classifier	Python etc	Machine Learning
74	Macro	Regression model for Video Game Sales Prediction	Python etc	Machine Learning
75	Macro	Regression model for predicting if song will be popular	Python etc	Machine Learning
76	Macro	Regression model for Customer Behavior Analysis	Python etc	Machine Learning
77	Macro	Universal Functions and Mathematical methods.	Python etc	Data Science

		Statistical and Comparison operations		
78	Macro	on rows/columns.	Python etc	Data Science
79	Macro	Create Pandas Series and DataFrame from various inputs.	Python etc	Data Science
80	Macro	python to implement the regression model and its related methods.	Python etc	Data Science
81	Macro	Implement Rail fence technique	C++/Java etc	Information Security
82	Macro	Implement Simple Columner Transposition technique	C++/Java etc	Information Security
83	Macro	Implement Simple Columner Transposition technique	C++/Java etc	Information Security
84	Macro	(ids) using any tool (snort or any other s/w)	C++/Java etc	Information Security
85	Macro	Implement Rail fence technique	C++/Java etc	Information Security
86	Macro	Implement Simple Columner Transposition technique	C++/Java etc	Information Security
87	Macro	Implement Simple Columner Transposition technique	C++/Java etc	Information Security
88	Macro	(ids) using any tool (snort or any other s/w)	C++/Java etc	Information Security
89	Macro	JLex, flex or other lexical analyzer generating tools.	C etc	Compiler Design
90	Macro	Design Predictive Parser for the given language	C etc	Compiler Design
91	Macro	Design a LALR bottom up parser for the given language	C etc	Compiler Design
92	Macro	and write code to generate abstract syntax tree.	C etc	Compiler Design
93	Macro	from the abstract syntax tree generated by the parser	C etc	Compiler Design
94	Macro	Lex Program to convert abc to ABC	C etc	Compiler Design
95	Macro	number of vowels, and consonants from the given input sting.	C etc	Compiler Design
96	Macro	Implementation of Predictive Parser	C etc	Compiler Design
97	Macro	Implementation of Recursive Descent Parser	C etc	Compiler Design

98	Macro	Implementation of SLR Parser	C etc	Compiler Design
99	Mini	Predict Housing Price	Python etc	Artificial Inteligence
100	Mini	Enron Investigation	Python etc	Artificial Inteligence
101	Mini	Stock Price Prediction	Python etc	Artificial Inteligence
102	Mini	Customer Recommendation	Python etc	Artificial Inteligence
103	Mini	Chatbots	Python etc	Artificial Inteligence
104	Mini	Voice-based Virtual Assistant for Windows	Python etc	Artificial Inteligence
105	Mini	Facial Emotion Recognition and Detection	Python etc	Artificial Inteligence
106	Mini	Online Assignment Plagiarism Checker	Python etc	Artificial Inteligence
107	Mini	Personality Prediction System via CV Analysis	Python etc	Artificial Inteligence
108	Mini	Heart Disease Prediction Project	Python etc	Artificial Inteligence
109	Mini	Banking Bot	Python etc	Artificial Inteligence
110	Mini	Differentiate the music genre from an audio file	Python etc	Artificial Inteligence
111	Mini	Background Subtraction	MATLAB etc	Digital Image Processing
112	Mini	Instance Segmentation	MATLAB etc	Digital Image Processing
113	Mini	Pose Recognition using MATLAB	MATLAB etc	Digital Image Processing
114	Mini	Medical Image Segmentation	MATLAB etc	Digital Image Processing
115	Mini	Image fusion	MATLAB etc	Digital Image Processing
116	Mini	Uber Data Analysis Project	Python etc	Machine Learning
117	Mini	Personality Prediction Project	Python etc	Machine Learning

118	Mini	Xbox Game Prediction Project	Python etc	Machine Learning
119	Mini	Credit Card Fraud Detection Project	Python etc	Machine Learning
120	Mini	Sign Language Recognition with Machine Learning	Python etc	Machine Learning
121	Mini	Handwritten Character Recognition	Python etc	Machine Learning
122	Mini	Cloud-Based Bus Pass System	AWS,JAVA,MySQL,etc	Cloud Computing
123	Mini	Online Education System	AWS,JAVA,MySQL,etc	Cloud Computing
124	Mini	Cloud-Enabled Data Leak Detection System Using SQL Injection	AWS,JAVA,MySQL,etc	Cloud Computing
125	Mini	Online Chatbot System	AWS,JAVA,MySQL,etc	Cloud Computing
126	Mini	Regression model to predict health insurance cost	Python etc	Machine Learning
127	Mini	Titanic Survival Prediction	Python etc	Machine Learning
128	Mini	Spam and not Spam Classifier	Python etc	Machine Learning
129	Mini	Spotify Music Recommendation System	Python etc	Machine Learning
130	Mini	Target Customer segmentation.	Python etc	Machine Learning
131	Mini	Health Insurance Cost Prediction model.	Python etc	Data Science
132	Mini	Salary Prediction model.	Python etc	Data Science
133	Mini	Loan Amount Prediction model.	Python etc	Data Science
134	Mini	Email monitoring	C++/Java etc	Information Security
135	Mini	Web application firewall	C++/Java etc	Information Security
136	Mini	Log Analyzer	C++/Java etc	Information Security
137	Mini	Malware Analysis Sandbox	C++/Java etc	Information Security

138	Mini	Encryption Software	C++/Java etc	Information Security
139	Major	Product Recommendation Systems	C++/Java etc	Information Security
140	Major	Plagiarism Analyzer	C++/Java etc	Information Security
141	Major	Prediction Bird Species	C++/Java etc	Information Security
142	Major	Next Word Prediction	Python etc	Artificial Inteligence
143	Major	Face Recognition	Python etc	Artificial Inteligence
144	Major	Mask Detection	Python etc	Artificial Inteligence
145	Major	Heart Disease Prediction	Python etc	Artificial Inteligence
146	Major	CV Analysis	Python etc	Artificial Inteligence
147	Major	Sales Predictor	Python etc	Artificial Inteligence
148	Major	Automated Attendance System	Python etc	Artificial Inteligence
149	Major	Pneumonia Detection	Python etc	Artificial Inteligence
150	Major	Image Colorization	Python etc	Artificial Inteligence
151	Major	Game of Chess	Python etc	Artificial Inteligence
152	Major	Human Pose estimation	Python etc	Artificial Inteligence
153	Major	Face Aging	Python etc	Artificial Inteligence
154	Major	Image Caption Generator	Python etc	Artificial Inteligence
155	Major	Voice-based Virtual Assistant	Python etc	Artificial Inteligence
156	Major	License plate recognition	MATLAB etc	Digital Image Processing
157	Major	Face Emotion recognition	MATLAB etc	Digital Image Processing

158	Major	Face recognition	MATLAB etc	Digital Image Processing
159	Major	Cancer detection	MATLAB etc	Digital Image Processing
160	Major	Object detection	MATLAB etc	Digital Image Processing
161	Major	Pedestrian detection	MATLAB etc	Digital Image Processing
162	Major	Lane detection for ADAS	MATLAB etc	Digital Image Processing
163	Major	Blind assistance systems	MATLAB etc	Digital Image Processing
164	Major	Gesture recognition	MATLAB etc	Digital Image Processing
165	Major	Drowsy driver detection	MATLAB etc	Digital Image Processing
166	Major	Fake Currency Detection via Image Processing	MATLAB etc	Digital Image Processing
167	Major	Emotion & Gesture Recognition	MATLAB etc	Digital Image Processing
168	Major	Smart Selfie Using Computer Vision	MATLAB etc	Digital Image Processing
169	Major	Real-Time Image-Based Attendance System	MATLAB etc	Digital Image Processing
170	Major	Number Plate Recognition	MATLAB etc	Digital Image Processing
171	Major	Content-Based Image Retrieval	MATLAB etc	Digital Image Processing
172	Major	Sentiment Analysis using Machine Learning	Python etc	Machine Learning
173	Major	Speech Emotion Recognition Machine Learning Project	Python etc	Machine Learning
174	Major	Catching Illegal Fishing Project	Python etc	Machine Learning
175	Major	Online Grocery Recommendation using Collaborative Filtering	Python etc	Machine Learning
176	Major	Movie Recommendation System using Machine Learning	Python etc	Machine Learning
177	Major	Automatic License Number Plate Recognition System	Python etc	Machine Learning

178	Major	Cloud-Based File Storage System using Hybrid Cryptography	AWS,JAVA,MySQL,etc	Cloud Computing
179	Major	Cloud-Based Rural Banking	AWS,JAVA,MySQL,etc	Cloud Computing
180	Major	Cloud-Based Smart Traffic Management System	AWS,JAVA,MySQL,etc	Cloud Computing
181	Major	Cloud based blood bank system	AWS,JAVA,MySQL,etc	Cloud Computing
182	Major	Online cloud-enabled bookstore system	AWS,JAVA,MySQL,etc	Cloud Computing
183	Major	Crop Yield Prediction Model.	Python etc	Data Science
184	Major	Stock Prediction Model.	Python etc	Data Science
185	Major	Caesar code Decoder	C++/Java etc	Information Security
186	Major	User authentication system	C++/Java etc	Information Security
187	Major	Image Steganography system	C++/Java etc	Information Security
188	Major	Anomaly detection, intrusion and its prevention	C++/Java etc	Information Security
189	Major	or two pass compiler (interpreter) for the programming language	C etc	Compiler Design