Project Notice for UG 4th BCA GEN./CYBER SECURITY/AI&DS, B.Sc. IT, B.Sc. CS and 6th sem BCA/B.Sc. IT and CS and PG 2rd semester students of MCA

Dated: 21-03-2025

The project allocation for all the **UG 4th BCA GEN./CYBER SECURITY/AI&DS, B.Sc. IT, B.Sc. CS and 6th sem BCA/B.Sc. IT and CS and PG 2rd semester students of MCA** is required to be completed by Tentatively **last week of March 2025**. For understanding purpose, we are displaying all the available project and domain area choices one week before actual submission of your choice. Along with the project list name(s) of faculty members is(are) given who would act as the resource person for that topic. In case of any queries, students are directed to contact the respective faculty member(s) to directly understand the requirements, tools, and technologies to be used, final expected outcomes, outcome formats, etc. There will a cap on choosing the same topic so it is good to keep at least **03 project choice** of your interest to be filled over registration link, the registration link will be shared by soon on Department Website only

All the projects required to be done individually. No group project allowed.

Serial No 1-5 Contact: Dr. Kamlesh Chandra Purohit Email: kamleshpurohit.cse@geu.ac.in Mobile: 9412933728

1. Network security challenges and implementation
2. IoT Solutions for Real World Problems
3. Network Protocol Implementation
4. Cyber Security Challenges and Countermeasures.
5. Configuration of Various Modules using Embedded Programming

Serial No 6-10 Contact: Mr. Bhawnesh Kumar Email: bhawneshkumar.cse@geu.ac.in **Mobile: 9897680354**

6. agile software development
7. clustering in wireless sensor networks
8. healthcare using AI
9. Deep learning in healthcare
10. energy efficiency in sensor network

Serial No 11-20 Contact: Dr. Neelam Singh Email: neelamsingh@geu.ac.in Mobile: 9720105097

11. Sustainable Development Goals (SDG) : Clean Water
12. Predictive analytics using ML
13. Sustainable Development Goals (SDG) : Quality Education
14. Smart cities (Sustainable Cities and homes)
15. Image Recognition using Deep Learning
16. Blockchain enabled decentralized applications
17. Food Spoilage Detection – Use image recognition and chemical data to detect early food spoilage.
18. Customer Churn Prediction – Develop a model that predicts customer churn in subscription-based businesses.
19. Air Quality Prediction – Develop an ML model that predicts air pollution levels using meteorological data.
20. Medical Image Analysis – Use CNNs to detect anomalies in X-rays, MRIs, or CT scans.

Serial No 21-27 Contact: Mr. Sanjay Roka Email: sanjayroka.cse@geu.ac.in **Mobile: 6396999743**

21. Problem Statement 01: Flower Recognition and cassification Using Machine learning algorithm
22. Problem Statement 02: Lung Cancer Detection using Convolutional Neural Network (CNN)
23. Problem Statement 03: Skin Cancer Detection using Machine/ Deep learning based architecture
24. Problem Statement 04: Rice prediction using machine learning algorithm
25. Problem Statement 05: Multimodal based Brain Tumor Detection and Classification Using machine learning/ Deep Learning technique
26. Eye diseases detection and classification using Artificial intelligence
27. Image denoising using Convolution neural network

Serial No 28-36 Contact: Mr. Harendra Singh Negi Email: mail.harendrasinghnegi@gmail.com Mobile:8126475013

28. Light Electric Vehicle Battery Performance Analysis
29. Real Time Fire Detection using Image and Video Processing
30. An Analytical Comparison of Crime Prediction using ML
31. machine Learning Approaches for waste management
32. AI based Attendance Monitoring System using ML
33. Performance Evaluation on Detection od Phi sing Websites using ML
34. A Smart Forest Fire Detection and Notification System using IoT and ML
35. Parkinson's Disease Prediction System using ML
36. AI based Air Quality Monitoring System using ML

Serial No 37-42 Contact: Dr. Varsha Mittal Email: varshamittal@geu.ac.in Mobile: 9634435387

37. Prediction using Machine learning
38. AI and healthcare
39. use of Generative AI in different domain
40. Use of artificial Intelligence to improve Quality Education
41. Use of machine learning and air quality monitoring system
42. machine learning to improve nutritional value of food

Serial No 43-51 Contact: Ms. Vandana Rawat Email: vandanarawat2405@gmail.com Mobile: 7055001712

43. IOT based Human Interaction System
44. Emerging Technology for Healthcare Delivery
45. Blockchain based security Applications
46. AI assisted Emergency Healthcare System
47. Digital Health Solution using MAchine LEarning/Deep Learning
48. Solar Energy Forecasting
49. Smart Waste Management System using Machine Learning
50. Biodiversity Monitoring using Deep Learning
51. Air/Water quality Monitoring

Serial No 52-57 Contact: Dr. Sushil Dimri Email: dimri.sushil2@gmail.com **Mobile: 8077147200**

52. Machine learning
53. Computer graphics
54. Network security
55. Algorithm optimization
56. Modeling and simulations of systems
57. Traffic control and optimization

Serial No 58-62 Contact: Ms. Afsar Jahan Email: afsarjahan.ca@geu.ac.in **Mobile: 9027576208**

58. Real-time Traffic and Parking Management System
59. AI-Based Handwritten Notes to Text Converter
60. Smart AI-Based Exam Proctoring System
61. AI-Powered Personalized Learning Platform
62. Automated Resume Screening System

Serial No 63-67 Contact: Dr. Pawan Kumar Mishra Email: pawankmishra.cse@geu.ac.in , pawan.78@gmail.com **Mobile: 9411413650**

63. Video Compression and Motion Estimation Using Discrete Cosine Transform
64. Brightness Preserving Image Contrast Enhancement
65. HIERARCHICAL TREE BASED IMPROVED IMAGE COMPRESSION TECHNIQUE
66. Detection and classification in video surveillance system using feature extraction Algorithm
67. Wavelet Based Image Resolution Enhancement with Auto-Brightness Enhancement

Serial No 68-72 Contact: Mr. Jaishankar Bhatt Email: jaishankarbhatt@geu.ac.in Mobile: 8077915658

68. IOT based smart applications using Arduino uno
69. Web Technologies Based Mini Projects
70. Disease Prediction Using Machine Learning
71. Smart health monitoring system
72. IOT based Smart street light system

Serial No 73-77 Contact: Dr. Dinesh C Dobhal Email: dineshdobhal@geu.ac.in Mobile: 9456744499

73. AI based solution for identification of a person using facial data.
74. AI based solution for identification for malicious programs
75. Traffic Pattern Recognition Methods and Applications
76. IoT-Based Vehicle Monitoring and Safety Systems
77. Deep Learning Applications in IoT-Aided Intelligent Transport Systems (ITS)

Serial No 78-83 Contact: Mr. Aditya Joshi Email: joshi.zenith@gmail.com **Mobile: 9557004416**

78. Person Re-identification in Computer Vision
79. Panoptic Segmentation in Computer Vision
80. Keypoint Detection in Image using Deep Learning
81. crop yield prediction using machine learning
82. Biodiversity conservation using AI
83. Deep learning in healthcare

Serial No 84-86 Contact: Mohd Shuaib Email: shuaib.ca@geu.ac.in Mobile: 9557706428

84. Full stack development
85. Lung cancer detection using explainable AI
86. facial expression recognition using explainable AI

Serial No 87-91 Contact: Ms. Shikha Thakur Email: thakurshikha1130@gmail.com Mobile: 7895932396

87. Smart Agriculture and Food Supply Chain Management
88. Decentralized Healthcare Data Management System
89. AI-Based Crime Prediction and Emergency Response System.
90. AI-Powered Personalized Learning & Career Guidance Platform
91. Dark Web Threat Intelligence and Monitoring System

Serial No 92-99 Contact: Ms. Aakriti Singh Email: aakritisingh431@gmail.com Mobile:

92. Smart Home Automation System with Voice Control
93. AI-Powered Chatbot for Mental Health Support
94. Secure File Sharing System
95. Smart Irrigation System
96. Online Data Backup and Restore Service
97. Autonomous Vehicle Detection and Traffic Sign Recognition System
98. Multiplayer Augmented Reality (AR) Strategy Game
99. Intrusion Detection System Using Machine Learning

Serial No 100-104 Contact: Ms. Swati Pant Email: swatipant.ca@geu.ac.in **Mobile:** 7500057411

100. Password Strength Analyzer & Auto-Suggester
101. Brainwave Emotion Detection
102. Ransomware Detection Using Behavioral Analysis
103. Cyber Threat Intelligence Dashboard
104. Personalized Study Planner

Serial No 105-107 Contact: Mr. Utsav Kumar Email: utsavkumar.ca@geu.ac.in **Mobile:** 9576685689

105. Chat Application with End-to-End Encryption
106. Microservices-based E-commerce Platform
107. Real-time Video Processing and Analysis

Serial No 108-113 Contact: Ms. Rashmi Kanyal Email: rashmikanyal.ca@gmail.com **Mobile**

108. AI-Based Intrusion Detection System (IDS) for Network Security
109. Web Application
110. Smart Waste Management System Using AI & IoT
111. AI-Based Driver Drowsiness Detection System
112. AI-Based Sign Language Recognition System (sign language gestures into text/audio.)
113. Mobile Application

Serial No 114-118 Contact: Mr. Pratik Kumar Email: pratikkumar.ca@geu.ac.in **Mobile:** 8404941098

114. AI-Powered Image Captioning
115. Medical Image Analysis
116. Fake News Detection
117. AI Game Player
118. E-commerce Product Recommendation

Serial No 119-123 Contact: Ms. Vikash Kumar Email: vikashkumarpd04@gmail.com **Mobile:** 8678813350

119. Cotton leaf disease prediction using CNN
120. Disease Prediction Using Machine Learning
121. Web development
122. Enhancing Security in MANETs with Deep Learning-Based Intrusion Detection
123. Plant Species Identification Using Machine Learning

Serial No 124-129 Contact: Ms. Ayushi Dwivedi Email: ayushidwivedi911@gmail.com **Mobile:** 8305281993

124. AI chatbot
125. Preparing Dashboard using. Power bi/Tableau
126. Sign language prediction using ML
127. Handwritten digit Recognition
128. Heart disease prediction

Serial No 129-137 Contact: Mr. Mukesh Singh Email: mukeshsingh.cse@geu.ac.in **Mobile:** 7990339287

129. Emerging Technology (Application of AI/ML/DL/GenAI in Education for Interactive Learning)
130. AI-based Personal Assistant for the Visually Impaired
131. Big Data Analytics for Retail
132. Cybersecurity Threat Detection Using Machine Learning
133. Deep Learning for Medical Image Classification
134. Cybersecurity Awareness and Phishing Detection Tool
135. Data Privacy in GenAI Models
136. Augmented Reality for Virtual Shopping Experience

137. AI for Sentiment Analysis on Social Media

Serial No 138-142 Contact: Mr. Anmol Chaudhary Email: anmolchaudhary.cc@geu.ac.in **Mobile:** 9149062705

138. AI-Based Cybersecurity System for Detecting Zero-Day Exploits in Web Applications
139. Decentralized Privacy-Preserving Social Media Analytics Using Blockchain
140. AI-Driven Crop Disease Prediction and Early Warning System Using Satellite Imaging
141. Scalable Recommendation System for E-commerce Using Collaborative Filtering and Content-Based Filtering
142. Intelligent Java-Based Resource Allocation System for Cloud Computing

Serial No 143-152 Contact: Mr. Priyansh Kumar Email: priyanshkumar84@gmail.com Mobile: 7500068057

143. Image Classification with Convolutional Neural Networks (CNNs)
144. Sentiment Analysis of Social Media Text
145. Predicting House Prices Using Regression Models
146. Recommendation System for E-Commerce
147. Voice Recognition and Speech-to-Text System
148. Face Recognition for Security Systems
149. Stock Market Prediction Using Time Series Analysis
150. Natural Language Processing (NLP) for Text Summarization
151. Spam Email Detection
152. Real-Time Object Detection

Serial No 153-161 Contact: Ms Gunjan Mehra Email: gunjanmehra.ca@geu.ac.in Mobile: 7088316631

153. Voice recognition and speech to text system
154. Predicting house prices using regression model
155. Diates prediction system
156. Face recognition for security systems
157. Crop yield prediction system
158. Recommendation system for e commerce
159. Stock market prediction using time series analysis
160. Sentiment analysis for social media text
161. Image classification and convolution neural network

Serial No 162-166 Contact: Mr. Mohit Amoli Email: mohitamoli.ca@geu.ac.in Mobile: 7451958189

162. Personalized Recipe Recommendation App Based on Available Ingredients.
163. Phishing Website Detection Browser Extension.
164. Smart Plant Watering System with Weather-Based Automation.
165. AI-Powered Study Planner for Students.
166. Face-Expression-Based Emoji Keyboard.

Serial No 167-171 Contact: Mr. Gagan Deep Singh Email: gagan.uk.hwr@gmail.com Mobile: 9927035279

167. Software defined networking: Implement a system to detect and recover from failures in SDN networks by rerouting traffic dynamically.
168. Online Learning Management System (LMS)
Create a platform where educators can upload courses, manage students, assign homework, and track progress, with features like quizzes and discussions.
169. Delivery Management system using GPS Vehicle Tracking App
170. Automobile Driver Drowsiness Detector
171. ATM system based on biometric (figerprints, eye detectcion.)

Serial No 172-176 Contact: Dr. VIDIT KUMAR Email: viditkumaruit@gmail.com Mobile: 9760997539

172. Medical image analysis using deep learning
173. Plant Disease detection using deep learning
174. Facial expressions recognition using deep learning
175. Deep learning based Object segmentation
176. Deep learning based Object detection

Serial No 177-181 Contact: Dr. Vartika Agarwal Email: vartikaagarwal2015@gmail.com Mobile: 7701994248

177. Develop an IoT-enabled smart camera system that uses deep learning (YOLO, Faster R-CNN) to detect traffic violations such as overspeeding, signal jumping, and wrong-way driving in real time.
178. Implement a smart parking system where IoT cameras detect and classify empty parking spaces using deep learning-based object detection models, providing real-time updates to a mobile app.
179. Develop an IoT-enabled smart toll system that uses deep learning-based number plate detection to automatically identify vehicles, deduct toll charges, and reduce waiting time at toll booths.
180. Create a surveillance system that detects stolen or unauthorized vehicles by cross-referencing detected number plates with a police database and sending real-time alerts.
181. Implement a reinforcement learning-based system that enables autonomous vehicles to make real-time driving decisions by predicting possible collisions using vehicular network data