GP 25-26 Titles Abstract-Female Campus

Sr. No.	GB Title	Abstract
1	College Connect and Sharing Platform	During their university studies, students rely on numerous sources of knowledge and educational materials to keep up with their coursework and academic progress. Similarly, faculty members publish many research papers and articles. However, the problem is that there is no unified platform within the university campus that allows students and faculty to share their educational resources or published research. College connect and sharing platform is an online portal that allows all university students and faculty members to share educational materials and research, either anonymously or publicly, in formats such as PDF files, images, or text documents. Our goal is to foster knowledge sharing among all users. Currently, the platform is intended for university students and faculty, but with the right infrastructure, we plan to expand its use to include all users.
2	Smart Checkpoints (SCP) Security System	This project proposes a smart checkpoint security system designed to detect, verify, and manage individuals at checkpoints in response to alerts or reports. The system integrates IoT sensors, cloud-based AI services, and automated mechanisms to monitor and control access efficiently. A motion sensor detects the approach of a person or vehicle, triggering a camera to capture an image, which is then sent to AWS Recognition for facial comparison against a database of flagged individuals. Based on the results, the system can automatically operate a barrier, trigger alarms, and notify authorized personnel. Additionally, a professional web-based admin dashboard, integrated with AWS, provides real-time monitoring, management of flagged individuals, and other administrative functions. This prototype demonstrates a scalable, adaptable, and automated approach to modern checkpoint security while maintaining human oversight.
3	Thimar - A Blockchain-based Digital Identity System for Sustainable Agriculture	This project develops a blockchain-enabled system that provides each agricultural product with a secure digital identity, ensuring data authenticity and transparency. Through QR code scanning, consumers can instantly access verified information on water usage, fertilizers, and environmental impact. Farmers gain credibility and economic advantage by validating sustainable practices, while government agencies benefit from analytical dashboards to monitor compliance. The system advances agricultural sustainability and supports Saudi Arabia’s Green Vision 2030.

4	Device ID Shield Over Smart City	This project addresses the growing cybersecurity threats targeting smart city infrastructures, specifically smart surveillance cameras and traffic lights. As cities increasingly rely on interconnected devices, the risk of unauthorized access and device spoofing becomes critical. The proposed solution introduces a digital identity verification model that classifies devices based on trust levels and triggers alerts upon detecting anomalies. Using tools such as Python, Node-RED, and Wireshark, the team simulated a smart city environment to test the model's effectiveness against spoofed devices. The results demonstrate the potential of identity-based security frameworks in enhancing the resilience of smart systems and preventing real-world cyber-attacks. This work contributes to the development of scalable, proactive defence mechanisms for future smart cities.
5	Emergencies Smart application for women's in Jazan -SOS Smart application	our graduation project aims to develop a smart application that provides assistance and requests for help to ladies in emergency situations, wherever and whenever. The smart application will be an Android mobile application linked to Firebase database that supports real-time data processing, notifications, and Emergency request. The user can send an emergency request by clicking a button directly, and the request will automatically include the woman's geographic location, in addition to her personal information and vehicle information. The emergency request will be sent directly to the designated authority, which will display the woman's details and geographic location, which can be tracked directly through Google Maps. You can also call the woman's number available through the app.
6	AI-Based Intelligent System for Mango Plant Disease Diagnosis Using Deep Learning and Mobile Application.	This project aims to develop an intelligent system that assists farmers in diagnosing mango plant diseases accurately and efficiently using Artificial Intelligence, specifically Deep Learning techniques. Farmers can capture an image of a mango leaf using a mobile application, which sends the image to a backend server hosting a trained Convolutional Neural Network (CNN) model capable of identifying different types of mango diseases. The system then provides an instant diagnosis along with confidence level and recommended treatment steps. The model is developed in Python using AI frameworks such as TensorFlow or PyTorch and deployed as a RESTful API via Django REST Framework to integrate with the mobile application. This solution significantly reduces diagnosis time from days to seconds, minimizes agricultural losses, and offers a scalable, easy-to-use digital tool that can later support other crops as well.
7	Smart Transport System for Jazan University	This project aims to develop a Smart Transport System for Jazan University for enhancing efficiency, improving user experience, and developing comprehensive management of campus transportation services. This system is designed to ease commuting, especially for those living far from campus,

		while helping reduce traffic congestion and student expenses. It provides a more reliable and timely transportation service for students, faculty, and staff. It contributes significantly to improving the quality of campus life by offering efficient and reliable transportation, thereby providing a more stable and comfortable academic environment for both students and faculty members.
8	Design and Implementation of a Simple Integrated Network Security System for Small Businesses and Homes	This project aims to design and implement a simple, low-cost, and integrated network security system tailored for small shops, clinics, small businesses, and homes. The system continuously monitors network traffic, learns the normal behaviour of each site's network, and detects deviations that may indicate potential cyber-attacks or intrusion attempts. When abnormal behaviour is detected, the system sends a simple and direct alert to the business owner, home user, or network administrator. At the same time, it collects incident data and generates a weekly security report.
9	Kid safe – Online Protection Tool for Children	This project aims to develop a child-friendly online protection tool that provides safe internet usage for children. The system will automatically block inappropriate content, monitor browsing activity, and detect suspicious links or files. In case of unsafe behaviour, instant alerts will be sent to parents through email or push notifications. The project integrates content filtering APIs, malware detection services, and a secure database to ensure children's cybersecurity while maintaining an easy and engaging interface.
10	Smart Health Response Application for Assisting Injured Individuals	In modern societies, many health emergencies occur unexpectedly in public places such as markets, universities, and parks. The time between the occurrence of the situation and the arrival of critical medical assistance is often the difference between life and death. Hence the idea of the graduation project "Mass Health Response App" to be a smart link between people at the scene of the emergency (informants, witnesses), health professionals, volunteers, and even official authorities such as the ambulance and the Red Crescent. The app allows anyone to report a case with the push of a button, and the system immediately locates the location, publishes alerts to those nearby, and provides immediate ambulatory instructions until specialized help arrives. By harnessing technology and community awareness, the app aims to maximize the chances of survival and minimize the risk of delay.
11	Online Appointment Booking System for Beauty Salons	Currently, booking appointments in beauty salons is often inefficient, time-consuming, and inconvenient for both customers and salon owners. Customers frequently experience long waiting times and difficulties in scheduling appointments, while salon owners struggle to manage schedules and avoid conflicts. For these reasons, our project proposes an Online Appointment Booking System for Beauty Salons. This system will streamline the booking process, reduce customer waiting time, and enable salon owners to manage services, staff, and appointments more efficiently.

12	Mindfulness Wristband: An IoT-Enabled Wearable for Enhancing Calmness and Self-Awareness	In today's fast-paced world, stress and constant distractions often reduce mindfulness and negatively affect mental well-being. Many people struggle to recognize when they are stressed and miss the chance to apply simple calming techniques in real time. This project introduces the Mindfulness Wristband; a wearable device connected to a mobile application through IoT. The wristband measures heart rate to detect signs of stress or reduced mindfulness. When such states are identified, it provides gentle feedback through vibration, reminding the user to pause and breathe. The companion mobile app displays real-time data, tracks mindfulness levels, and suggests short breathing or awareness exercises. The prototype demonstrates how an accessible, low-cost wearable combined with a phone app can go beyond physical health tracking to actively support calmness, presence, and digital well-being in everyday life.
13	Using artificial intelligence to manage student attendance	In the past, verifying student identity was one of the most challenging tasks universities faced when attendance was high, such as when students flocked to campus for lectures. This required significant time and effort from instructors to manage student attendance and document attendance through the registration system AI artificial intelligence technologies have provided us with many technical ideas to facilitate the tasks of distinguishing objects by relying on precise and complex algorithms. Among these algorithms is the artificial intelligence network dedicated to distinguishing people based on a facial sample of the previously known person. AI attendance system based on facial recognition artificial intelligence technology can to help university to enhance the students attendance management through implementing the AI intelligence image processing face detection and recognition technology as new computer vision , the new system will be a computerized application that can automatically detect and recognize the university students by their faces and create student attendance record which will be stored into the system database including the time and date of attendance. The system back-end we will use the SQL server database , and the system front-end is a desktop application using C# programming language , for the computer vision and face detection we will use the "EmguCV" computer vision for image processing library.
14	" نطمئن :Smart First Aid Guide Using Artificial Intelligence"	This project introduces " نطمئن": Smart First Aid Guide, an intelligent mobile application designed to assist families when children accidentally ingest chemical substances. The system leverages Artificial Intelligence (AI) to analyse user input or scanned product labels and instantly provide accurate first aid instructions through text, audio, and visuals. In critical scenarios, the app connects parents directly with doctors or medical graduates, ensuring timely medical advice while bridging the response gap until emergency services arrive. Additional features include offline emergency mode, safety alerts, and

		an educational library for parents. Expected outcomes include reducing parental panic, preventing harmful delays, empowering medical volunteers, and ultimately saving children's lives.
15	Smart Campus Navigation Application in Jazan University	The Smart Campus Navigation Application project in Jazan University aims to provide a comprehensive and intelligent solution that facilitates access for all university groups—including students, faculty members, administrative staff, cleaning staff, and visitors—to the various buildings and facilities within the campus in an accurate and seamless manner. The application allows precise identification of classrooms, laboratories, administrative offices, libraries, sports facilities, cafeterias, clubs, waiting rooms, and restrooms, while providing detailed information for each location to enable smooth navigation without wasted time or repeated enquiries.
16	Onlineger: The Smart Secretary & Manager for Remote Business Management	Managing remote business operations is often messy and inefficient, as companies struggle to keep track of clients, tasks, payments, and communication across multiple platforms. This lack of organization leads to missed deadlines, delayed payments, and poor client relationships, especially for companies that work entirely online. Without a central system, managers spend valuable time switching between tools, while employees lack clear task assignments and accountability. Onlineger addresses this challenge by providing an all-in-one smart secretary and manager for remote businesses. The application allows companies to register clients, record requests, track project progress, issue invoices, and manage payments seamlessly. A key feature is the integration of AI-powered WhatsApp conversation analysis, which identifies clients, extracts payment agreements, and even analyses tone to flag potential issues. The system generates automatic invoices, sends reminders before deadlines, and offers detailed daily, monthly, and yearly reports. With role-based access, employees only see their tasks while supervisors manage distribution and monitor team performance.
17	The Allergy Guard Application	This project aims to build a mobile solution designed to help users identify potential food allergens through image recognition. Using the device's camera, the app analyses food items and compares them to a comprehensive allergen database, providing real-time feedback on potential risks. It also allows users to view previous scans with their results. This app is particularly useful for people with known allergies, helping them quickly and efficiently avoid unsafe foods.
18	Technology-enabled Cafe system	This project aims to establish a modern café that leverages modern technological solutions to provide an integrated customer experience. Smart ordering systems are used via mobile applications to facilitate the purchase process and reduce waiting time. The café also relies on a management system to accurately and automatically track sales and inventory.
19	Monitoring the Internet use of children	A mobile app that helps parents monitor and guide children's internet use safely. The focus is on protection, awareness, and healthy habits, not just blocking content.

20	JAZWAY: A Platform for Indoor Campus Navigation and Academic Interaction	The JAZWAY application is developed for the staff and students of Jazan University, specifically serving the Campus of the Female Academic Complex in Mahalia. The main objective of the project is to provide indoor navigation that helps students easily locate faculty offices, classrooms, and on-campus facilities such as café, restaurant, the library, prayer areas, and more. In addition, the application functions as a smart platform that enables direct communication between students and faculty members by providing real-time access to office hours and faculty availability, contributing to better time management and an enhanced academic experience within a digital university environment.
21	Campus electricity consumption management application	The goal of this project is to create a clever program that efficiently controls electricity use on college campuses. The technology tracks how much electricity is used by each facility or equipment separately and lets you establish a budget as the monthly maximum for your electricity bill. It offers a thorough analysis of the electricity bill and notifies users when the specified limit is reached, or excessive usage occurs. The system also shows which buildings are in use right now, giving campus administration the ability to keep an eye on usage in real time. This clever idea lowers operating expenses, improves resource efficiency throughout the university, and helps conserve energy and solve the problem of checking each building and the devices operating in it.
22	Exploring User Behaviours Towards Data Privacy and Security in Academic Environments	This project aims to investigate user behaviours, awareness, and practices related to data privacy and security within academic environments. With the increasing reliance on digital platforms in universities, students face risks such as data breaches, phishing, weak password practices, and unawareness of cybersecurity policies. The project will collect data through surveys, interviews, and activity monitoring to identify gaps in user behaviour. Based on findings, a prototype of an awareness-driven platform will be developed to provide guidelines, recommendations, and training modules to improve data privacy and security practices in academic institutions.
23	Intelligent Mobile Tourism Application for Family Trip Management.	This project is a smart assistant for planning family trips within the Kingdom of Saudi Arabia. The app acts as a personal tour guide on the phone, helping the user plan their vacation easily and in one place. The app begins by collecting basic information from the user, such as the number of family members or friends, their ages, the duration of the trip, and the available budget. The app then analyses this data and generates a comprehensive travel plan that includes: Suggestions for family-friendly tourist attractions (such as natural sites, events, and shopping). Activities suitable for all ages, including children. Suggestions for restaurants suitable for the area and budget. Accommodation options available within budget limits.

		The ability to book selected activities directly within the app. A suggested daily schedule that includes all the details.
24	HISANA – Cybersecurity Vulnerability Scanner	HISANA is a web-based application designed to help small and large companies detect open ports,
25	Muwazib – Smart Student Attendance & Participation Tracking App	In many universities and colleges, the process of recording student attendance is still done manually using paper or basic spreadsheets, which is time-consuming, prone to errors, and can be manipulated by students. This results in inaccurate attendance data, difficulty in monitoring participation, and limited insights for instructors about student engagement and performance.
26	AI System for Cyber-Attack Prediction in Autonomous Vehicles	Autonomous vehicles rely on sensors, AI, and connectivity, making them vulnerable to failures and cyber threats. This study proposes an intelligent system using AI for predictive maintenance and attack detection, analysing sensor data and communication traffic to enhance reliability and safety.
27	ANIS: AI-powered Nursing & Integrated Support.	This project aims to design and develop a mobile and web-based application to support patients with chronic diseases such as diabetes, hypertension, pregnant women, and Alzheimer's patients. The system will integrate with Artificial Intelligence (AI) to provide personalized recommendations, health monitoring, and early alert mechanisms. The solution will enhance patient-doctor communication, reduce risks of emergencies, and improve overall healthcare quality by offering continuous tracking and support, With the possibility of connecting it to Internet of Things (IoT).
28	AI program for personal financial management that provides suggestions for saving money	This project aims to develop an intelligent application that helps individuals manage their personal finances more effectively. The application relies on artificial intelligence technologies to analyse the user's income and expenses, then provides practical suggestions for saving and achieving financial stability
29	Lifesaving bracelet for young swimmers	This project aims to design a smart bracelet for kids to use while swimming. The bracelet will be waterproof and can detect if the child stays too long under water. It will also have GPS and send alerts to parents through a mobile app. This will help improve safety and reduce drowning accidents
30	Developing Ons Platform for Supporting Mental Health among University Students	This project aims to develop an intelligent mental health system based on artificial intelligence technologies, targeting university students to support them in coping with psychological challenges related to academic life such as anxiety, depression, and stress.
31	Smart vehicle maintenance detection system	The project is an application linked to a sensor in the car, which aims to detect faults early and calculate the end of the engine oil and gear oil life cycle. The system alerts the user directly, helping to reduce

		sudden breakdowns.
32	Smart system for predicting falls in elderly and mobility impaired individuals using sensor data and machine learning	This project aims to develop an intelligent system for predicting falls before they occur among older adults and individuals with mobility impairments. The system utilizes advanced motion sensors to measure indicators such as acceleration, angular velocity, and balance changes. These data are then analysed using machine learning techniques to identify early signs of increased fall risk. The primary objective of the system is to issue proactive alerts to users or caregivers to reduce injuries and improve quality of life. The project integrates the design of sensor-based data acquisition with the development of a predictive machine-learning model, complemented by a simple application interface for notifications and continuous monitoring.
33	"Dillni" - An intelligent App designed to navigate and streamline University life for students.	The project aims to develop a smart application that helps Jazan University students navigate the campus through location-based features for classrooms, mosques, lounges, and other facilities. It also offers schedule organization, task and course list creation, and an interactive chat feature that allows students to share summaries and updates, with content filtering based on college and major.
34	A Framework for Real-Time Arabic Sign Language Translation Using Deep Learning	Arabic Sign Language (ArSL) is a vital communication medium for the Arab deaf and mute community. However, communication barriers remain due to the limited accessibility to educational, social, and professional environments. Currently, there is no application that provides real-time translation of ArSL. This project aims to design and implement a bi-directional framework that translates ArSL signs into Arabic text and Arabic text into ArSL signs using advanced deep learning models. By leveraging modern transformer-based architectures and transfer learning with CNNs, the project aspires to enhance inclusivity and bridge communication gaps between deaf individuals and the wider community.
35	Food waste management system-Kifaf	Food waste is a major social and environmental issue, as surplus food from homes, restaurants, and events often ends up discarded. Kifaf\ كِفاف aims to provide a digital platform connecting food donors (individuals, restaurants, event organizers) with charities and beneficiaries, ensuring that surplus food is distributed efficiently and responsibly. Users can post available food, track donations, and coordinate pickups, reduce waste and helping those in need.
36	Sleep Apnea Detection Using a Smart Pillow	Sleep apnea is one of the most common sleep disorders, characterized by repeated pauses in breathing during sleep. These interruptions reduce oxygen levels in the blood and disrupt sleep quality, often leading to excessive daytime sleepiness, headaches, and impaired concentration. More critically, untreated sleep apnea has been linked to severe health complications such as hypertension, cardiovascular disease, and stroke. Despite the seriousness of this condition, many cases remain undiagnosed due to the limitations of current diagnostic methods.

37	Design and Implementation of an IoT-Enabled Smart Parking System Using CNN for Real-Time Detection and Reservation	This project proposes the development of a mobile application for smart parking management using Internet of Things (IoT) technologies and deep learning methods. The system integrates cameras in parking lots to detect and predict vehicle presence through Convolutional Neural Networks (CNN), connected with Raspberry Pi devices and microcontrollers. These components communicate with the mobile application via IoT platforms, enabling automatic real-time updates. The Android application allows users to view available parking spots, reserve spaces in advance, and monitor parking status in real time. Free spaces are marked in green while occupied ones appear in red. This project aims to reduce time spent searching for parking, alleviate traffic congestion, and support the development of smart city infrastructure.
38	HireSmart: An Intelligent Job-Matching and Resume Builder Web Application	This project focuses on creating a smart job-matching web application that enables job seekers to input their personal, educational, and professional information through an interactive interface. The system will automatically generate an ATS-compatible resume and match users with suitable job opportunities. Additionally, users can filter job listings by salary range, location, and job title. The goal is to streamline the job-hunting process and improve the likelihood of matching candidates with the right positions.
39	Smart Utility Tracker with Predictive Alerts and Maintenance Management System	The Smart Utility Tracker with Predictive Alerts and Maintenance Management System uses IoT sensors and data analytics to monitor electricity, water, and gas in real time. It provides predictive alerts for abnormal usage and potential failures, helping users act proactively. The integrated maintenance module streamlines scheduling and tracking of services, reducing costs and promoting efficient, sustainable utility management.