

Faculty of Computer Science

Spring- 2025

Semester Projects

Title List and Group Members

Subject: Data Mining

Teacher Name: Mr. Sayed mortaza kazemi Session: Spring 2025

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| s.no | Project title | group member (Name – Reg#) |
|  | **Smart Traffic Management in Kabul**   * **Goal:** Optimize traffic light timing to reduce congestion using real-time vehicle counting. * **Tech:** YOLO-based vehicle detection + reinforcement learning. | Haqmal hanif  naseer ahmad taraki  naseer totakhil |
|  | Food order prediction  This food order prediction project aims to predict customers’ food orders based on their preferences, location, past orders, time of the day, etc. Learners will build a classification model using supervised learning techniques and Python libraries to make predictions. | imran ghani |
|  | **Heart disease detection** | anas kabir  haroon azizi |
|  | Livestock Health Monitoring System  Objective : Support Afghanistan’s livestock-dependent economy by ensuring animal health.  Details : Develop an AI system that uses wearable sensors to monitor livestock health (e.g., temperature, movement) and detect signs of illness. Alerts could be sent to farmers via SMS or mobile apps.  Impact : Protects livestock, which is a critical source of income and nutrition for many Afghan families. | mustafa mansoori  abdullah hotak |
|  | **Stock Prices Predictor**  Store sales can be influenced by many factors, including promotions, the presence of competitors, holidays, seasonality, and locality. Machine learning can be used to identify patterns in these trends and determine how they influence sales. | mohammad yasin qasemi |
|  | Handwritten Digit Recognition  Description : Build a model to recognize handwritten digits using the MNIST dataset.  Tools : TensorFlow, Keras, PyTorch.  Applications : Postal services (sorting mail), digitizing historical documents.  Advanced Feature : Extend the project to recognize handwritten text (OCR). | aziz ahmad afzali |
|  | **Online Payment Fraud Detection** | sayed modaser  abdulrahman qanie |
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