

Syed Waseem Irfan

STUDENT

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Education

Indian Institute Of Information Technology Kottayam

BACHELOR OF SCIENCE IN COMPUTER SCIENCE (CORE) , CGPA: 8.33

Kottayam, Kerala, India

Aug 2023 - May 2027

Skills

Languages Python , Java , C /C++ , HTML/CSS , MySQL , JavaScript , PHP

Frameworks Scikit-learn, Matplotlib, OpenCV, PyTorch, Keras, Tkinter , Angular , NetworkX , Seaborn

Advertising and Marketing Adobe Premiere Pro , Adobe After Effects , Adobe Illustrator , Adobe Photoshop

Projects

Breast Cancer Prediction | Scikit-learn, Pandas, NumPy, Seaborn, Python

- Built a binary classification model using the Wisconsin Breast Cancer dataset to predict malignant and benign tumors.
- Performed EDA, handled missing values, encoded categorical features, and applied feature scaling techniques.
- Trained and tuned Logistic Regression, KNN, and SVM models using GridSearchCV; evaluated with accuracy, precision, and ROC-AUC.

House Price Prediction | Scikit-learn, Matplotlib, Pandas, NumPy, Python

- Developed a regression model to predict house prices using the Kaggle House Prices dataset.
- Performed data preprocessing, feature engineering, EDA, and applied Linear Regression, Ridge Regression, and XGBoost.
- Trained Random Forest models with cross-validation and evaluated using Mean Absolute Error (MAE), while handling missing values and categorical variables.

Car User Management System | MySQL, Python, PrettyTable

- Built a menu-driven Python system with secure login/registration, leveraging MySQL triggers and constraints for data integrity.
- Designed and normalized relational database tables for cars, customers, branches, and dealers.
- Fetched and displayed user-specific data with optimized queries, using PrettyTable for clear tabular output.

Currency Converter Application | Tkinter, Pandas, Matplotlib, LXML, Requests

- Implemented currency conversion with live exchange rates fetched from an online API.
- Added a swap feature for currency pairs and displayed rates in a formatted table.
- Refactored the code into separate modules for maintainability and tested key functionalities.

About

- Hands-on experience with **supervised** and **unsupervised learning** — implemented classification, regression, and clustering models.
- Proficient in **OpenCV** for image processing and real-time computer vision applications.
- Built foundational knowledge of **Natural Language Processing** — applied basic text preprocessing and analysis techniques.
- Actively working with **Kaggle datasets and notebooks**, Participated in contests on Codeforces, CodeChef, and LeetCode.
- Experience in using ML libraries such as **PyTorch**, **TensorFlow**, and **Scikit-learn** to build and train models.