



Muhammad Tariq

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EDUCATION AND TRAINING

Bachelor of Science in Computer Science

University of Engineering and Technology Peshawar [9 Sep 2019 – 25 Dec 2023]

City: Peshawar | Country: Pakistan | Website: www.uetpeshawar.edu.pk

RELEVANT COURSEWORK:

Data Science and Analytics

Database Systems

Statistics

Data Structures and Algorithms

Software Engineering

Database Management Systems

Cloud Computing

Software Engineering

Human-Computer Interaction

Programing

PROJECTS

Mobile Application Development for Streamlining Plot File Transactions in Housing Societies (Final Year Project)

Objective: Address challenges in the conventional process of buying and selling plot files within housing societies by developing a user-friendly mobile application.

Description:

- Leveraged the Flutter framework to develop a mobile application aimed at streamlining transactions, enhancing efficiency, and fostering transparency in plot file transactions.
- Project objectives included creating a secure platform, improving communication, and expanding geographic reach.
- Defined scope covered the targeted region, technology framework, core features, and stakeholder engagement.
- Goal was to deliver a transformative solution that simplifies and modernizes plot file transactions in housing societies.

Key Contributions:

- Led the development process, including design, implementation, and testing of the mobile application.
- Collaborated with stakeholders to gather requirements and ensure alignment with project objectives.

- Implemented security measures to safeguard sensitive transaction data and ensure user privacy.
- Conducted user testing and incorporated feedback to enhance usability and functionality.

Technologies Used:

Flutter, Firebase (including Authentication, Firestore or Realtime Database, Cloud Functions, Storage, and Hosting), a secure Payment Gateway, Git, and Dart., Mobile Application Development, User Interface Design, Security Implementation, Stakeholder Engagement

Stock Market Prediction Objective:

Develop a machine learning model to predict stock prices based on historical data and various market indicators.

Contribution:

- Focused on data collection and pre-processing, including cleaning and normalization of the dataset.
- Implemented a machine learning algorithm (e.g., Random Forest) for stock price prediction.
- Evaluated the model's performance using metrics such as Mean Squared Error (MSE).

Key Technologies Used:

Machine Learning, Python, Data Preprocessing, Random Forest, Evaluation Metrics

Hand Gesture Controlled Laptop Using Arduino: Write here the description...Developed an Arduino Uno-based system using Ultrasonic sensors for hand gesture control of media playback, volume, page scrolling, button clicks, stop, go back, and refresh on a laptop. This project showcased my expertise in embedded systems, sensor integration, and programming, emphasizing my commitment to enhancing user interaction with computers through innovative and intuitive interfaces.

COURSES & CERTIFICATIONS

Google Cybersecurity Professional Certificate - Coursera

CS50's Introduction to Cyber Security - HarvardX

RedHat Certified System Administrator RHCSA – Network Kings

RedHat Certified Engineer RHCE – Crow Security

AWS Cloud Solutions Architect – Network Kings

IP Address and Subnetting – Network Kings

Networking – Network Kings

Crash Course on Python – Coursera

SKILLS

Programming Languages:

- Proficient in Python for data analysis, machine learning, and web development.
- Experience with JavaScript for front-end web development.
- Familiarity with SQL for database management and querying.

Data Analysis and Visualization:

- Advanced skills in using libraries such as NumPy, Pandas, and Matplotlib for data manipulation and visualization.
- Experience with data analysis tools like Jupyter Notebook and Google Colab.

Machine Learning and Artificial Intelligence:

- Strong understanding of machine learning algorithms and techniques, including regression, classification, and clustering.
- Experience with frameworks such as TensorFlow and scikit-learn for building and deploying machine learning models.

Web Development

- Proficient in HTML, CSS for building responsive and interactive web applications.

Version Control:

- Proficient in using Git for version control, including repository management and collaboration.

Database Management:

Cloud Computing

- Familiarity with cloud platforms such as AWS (Amazon Web Services)
- Experience with deploying applications and managing resources on cloud infrastructure.

Cybersecurity:

- Knowledge of cybersecurity principles and best practices for securing networks and systems.
- Experience with tools like Wireshark for network traffic analysis and vulnerability assessment.

Excel Skills:

- Advanced knowledge of Microsoft Excel, including functions, pivot tables, and data visualization techniques.
- Ability to manipulate and analyze large datasets efficiently using Excel.

Data Cleaning and Preprocessing:

- Familiarity with techniques for cleaning and preprocessing raw data, including handling missing values, outliers, and data transformation.

LANGUAGE SKILLS

Mother tongue(s): Pushto

Other language(s):

Urdu

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user