Sarmad Mansoor

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Education

Punjab University College of Information Technology, Lahore **Dec. 2022 – June 2026**
Bachelor of Science in Software Engineering *Lahore, Punjab*

Relevant Coursework

- Data Structures
- Web Technologies
- Algorithms Analysis
- Database Management
- Machine Learning
- Object oriented programming
- Computer Vision
- Computer Network

Projects

Fast Food Ordering Website | ASP.NET MVC, C#, Entity Framework, HTML/CSS/Bootstrap **December 2024**

- Developed a web application for ordering fast food by categories using ASP.NET MVC architecture.
- Implemented Entity Framework Core for seamless database operations, including CRUD functionality.
- Built an admin panel to manage menu items, categories, and user orders.
- Integrated ASP.NET Identity for secure user authentication and role-based authorization.
- Designed responsive front-end interfaces using HTML, CSS, and Bootstrap to ensure a smooth user experience.
- Handled backend logic in C#, applying MVC design principles to separate concerns between models, views, and controllers.

Neural Network for Activity Monitoring | Python, NumPy, Machine Learning **November 2024**

- Built a deep neural network from scratch using NumPy to classify human activity based on raw sensor data.
- Processed raw accelerometer and gyroscope data without manual feature extraction.
- Compared the performance of different classification algorithms including PCA, Logistic Regression, Autoencoders, and Decision Trees.
- Conducted experiments to evaluate model accuracy, precision, and recall across multiple activity types.

Personalized Movie Recommendation System | Python, Streamlit **March 2025**

- Built a personalized movie recommendation system based on user preferences using Python and machine learning techniques.
- Performed data preprocessing and vectorization on the TMDB movie dataset to compute content-based similarities.
- Developed the backend logic for recommending movies using cosine similarity over feature vectors.
- Designed a user-friendly frontend interface using Streamlit for real-time movie recommendations.
- Implemented a full project pipeline including data cleaning, feature engineering, model development, and frontend integration.

Next Word Predictor | Python, PyTorch, LSTM **February 2025**

- Developed a next word prediction model using Long Short-Term Memory (LSTM) networks implemented in PyTorch.
- Processed and tokenized text data to create input-output sequences for training the LSTM model.
- Designed and coded the LSTM architecture manually, handling embedding layers, hidden states, and output layers.
- Trained the model to predict the next word given a sequence of previous words, improving predictive accuracy over epochs.
- Gained hands-on experience in sequential modeling, RNNs, LSTM structures, and deep learning model training in PyTorch.

Technical Skills

Languages: Python, C#, C++, HTML/CSS, SQL
Developer Tools: VS Code, Audriod Studio, Sql Server , Google Cloud Platform, VS Community
Technologies/Frameworks: Linux, GitHub,Jira, WordPress

Leadership / Extracurricular

Campus Ambassador | ScholarUp Funds
Spring 2023 – Present

- Represent ScholarUp Funds on campus, advocating for the cause of accessible education.
- Promote fundraising campaigns to support deserving students and help unlock opportunities for their brighter futures.
- Engage peers and alumni to contribute to the mission of shaping tomorrow's leaders through education.