

Tanzeela Sehar

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Education

Bachelor of Science, Software Engineering.

Expected Graduation: May 2024

University of Karachi (UBIT) – Karachi, Pakistan.

Courses: Data Structures & Algorithms, Java OOP, Compiler Construction, Web Applications, Computer Logic Design, Big Data Analytics, Networking, Data Mining and Data Warehousing, Artificial Intelligence.

Experience

Freelancing – Upwork.

Feb 2023 – March 2023

Feedback Provider

- Reviewed and assessed research articles, based on AI, offered specific recommendations to the author, through detailed feedback and constructive suggestions, highlighting both strengths and weaknesses.
- Focused on identifying areas where enhancements could be made, such as improving the logical flow, strengthening arguments, and clarifying complex concepts.
- Ensured that the articles were understandable and accessible to a broad audience.

Projects

Stray Dogs Detection System – [GitHub](#)

May 2022 – Nov 2022

- Trained a real-time object detection model using YOLOv5m pre-trained weights and architecture to detect stray dogs, humans, cats and horses. (**Google Colab, Python, YOLOv5**).
- Performed data preprocessing on more than 12,000 images. (**PyTorch, Numpy, Pandas, OpenCV**).
- Achieved an overall precision score of 96.8% and mAP@0.5 score of 98.8%.

Personal Portfolio Website – [GitHub](#) ([Portfolio Link](#))

June 2023 – July 2023

- Designed and developed a responsive personal website from scratch (**JavaScript, HTML and CSS**).

Mental Health Chatbot

Jun 2021 – Aug 2021

- Created the knowledge-base for the model. Trained the chatbot by applying CNN using NeuralNet, achieved 75% accuracy. (**Python, NeuralNet**)
- Designed the front-end using HTML, CSS and JavaScript.

Certifications

Google Data Analytics (Professional Certificate)

Jan 2023 – Jul 2023

- Learned concepts like Structured Thinking, Gap Analysis, Data Lifecycle, Data Ecosystems, Phases of Data Analytics, Data-Driven Decision Making, Data Integration and Interpretation, Statistical Analysis, Data Story-Telling, Predictive Modeling, Data Ethics and Privacy
- Got Familiar with MS Word, MS Excel, MS PowerPoint, Google Spreadsheets, Dashboards and Pivot Tables

Big Data Analytic Technique (Certificate Course)

June 2021 – Dec 2021

- Learned Data Cleaning, Data Storing, Data Visualization, Model training (Linear Regression/ Naïve Bayes/ KNN/ Decision Trees etc), Model Evaluation, Parameter Tuning, Making Predictions.

Programming Skills: Python, Flask, R, MySQL, C, C#, Javascript, Java

Other: Git, Pandas, Numpy, OpenCV, Matplotlib, Seaborn, Scikit-learn, Tableau, HTML, CSS\Bootstrap, MS Office

Interests: Data Science, Game Development, Artificial Intelligence, Software Development