

# Tanzeela Sehar

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## Education

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### Bachelor of Science, Software Engineering.

January 2019 – December 2023

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.

### Diploma, Big Data Analytics.

June 2021 – Dec 2021

Institute of Business Administration (IBA) – Karachi, Pakistan.

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

## Experience

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### 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, improving accessibility for non-expert readers.

## Projects

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### 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 10,000 images. (**Pytorch, Numpy, Pandas, OpenCV**).
- Achieved an overall precision score of 96.8% and mAP@0.5 score of 98.8%.

### Little Lemon – [GitHub Website](#)

Jan 2024

- Designed the wireframe and prototype of the website. (**Figma**)
- Created multiple styled-components. (**React, MaterialUI, CSS**)
- Added feature to update the form field based on user input. (**React Hooks, FetchAPI**)
- Integrated form validation for booking a table and added unit tests. (**Jest, react testing library**).

### Mind Your Well Being – [GitHub Website](#)

Dec 2023

- Developed a website using **HTML, CSS, Bootstrap** and **Javascript** to offer valuable resources and support for mental health.
- Designed user-friendly interface and implemented form validation (**HTML form validation**).

## Certifications

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### Django Web Framework ([Coursera Certificate](#))

Feb 2024

### Meta Front-End Developer ([Professional Certificate](#))

Oct 2023 – Jan 2024

### Google Data Analytics ([Professional Certificate](#))

Jan 2023 – June 2023

**Programming Languages:** Javascript, Python, R, SQL, Java, C/C++, C#

**Data Science tools:** Pandas, Numpy, tensorflow, Matplotlib, Seaborn, Scikit-learn, Tableau

**Web development:** ReactJs, Django, Figma, MySQL, HTML, CSS, Bootstrap, Git, VSCode, Vertabelo, Figma