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| Nihal Tariq |

0303-8966433 | nihaltariq66@gmail.com | [LinkedIn](https://www.linkedin.com/in/nihal-tariq-1ab220283/) | [Portfolio](https://nihaltariq-portfolio.lovable.app/)

# Profile

Aspiring AI and Machine Learning practitioner with a strong foundation in Python-based development and hands-on experience in Natural Language Processing (NLP). Proficient in designing and deploying intelligent solutions through various AI/ML frameworks. Actively pursuing certifications and advancing practical skills in areas like deep learning, neural networks, and data-driven model development. Passionate about creating impactful AI-driven tools and continuously expanding expertise in the field.

# Projects

## Lyra – LLaMA-based Chatbot v1.0 | March 2025

## [GitHub](https://github.com/nihal-tariq/lyra_version1.0) | Python, LLaMA Model, NLP, Streamlit

Designed a conversational chatbot interface powered by Meta’s LLaMA model. Experimented with lightweight fine-tuning and token management to ensure efficient performance. Gained deep insights into LLM architecture, prompt optimization, and conversational UI design.

## Lumina| FYP | Feburary 2025– Present

[Github](https://github.com/nihal-tariq/lumina)| Flutter, Firebase, PyTorch, Python, HuggingFace Transformers, Web Scraping (BeautifulSoup), Firebase ML

Built an AI-driven career counseling app featuring a merit prediction model, personalized university recommendations, and an NLP chatbot. Scraped real-time university data to power dynamic admissions insights. Focused on integrating ML models and web-scraped data into a cross-platform UI.

## Restauranto – Restaurant Management System| March 2024– june 2024

[GitHub](https://github.com/nihal-tariq/Restauranto_django_project-) | Python, Django, HTML/CSS, Tailwind, SQLite, Javascript

Built a full-stack web application for managing restaurant menus, reservations, and staff roles. Applied CRUD operations, admin dashboard configuration, and Django ORM relationships. Strengthened backend development skills and deployment-ready Django practices.

## Text Summarizer| december 2024

[GitHub](https://github.com/nihal-tariq/TextSummarizer) | Python, Streamlit, T5 Transformer, RAKE, NLTK, HuggingFace

Developed an application that summarizes uploaded documents and generates flashcards with keyword-based headings. Utilized pretrained T5 model for extractive and abstractive summarization. Gained experience with NLP pipelines, tokenization, and integrating deep learning models.

## Esemble voting classifier- Machine learning model | january 2025

Python, Scikit-learn, Pandas, Numpy

Built a robust classification model using a combination of Decision Trees, Random Forest, and Logistic Regression. Achieved improved accuracy through ensemble learning techniques and hyperparameter tuning.

# Education

**BS in Computer Science**  
COMSATS University Islamabad, 2022 – 2026.

CGPA: 3.54

**FSc**   
Divisional Public School & College, Sahiwal, 2019 – 2021

# Skills & Technologies:

**Artificial Intelligence & Machine Learning:**

* Supervised Learning
* Ensemble Learning
* Neural Networks
* Natural Language Processing
* Model Integration & Deployment
* Working with LLMs
* Object Detection with Yolov8
* Web Scraping

**Programming Languages:**

* Python, JavaScript, C++, Java

**Web Development:**

* Frontend: React.js, HTML5, CSS3, JavaScript, Bootstrap
* Backend: Django (Python), Node.js
* APIs: REST APIs, Firebase
* Database: SQL, SQLite

**Tools & Platforms:**

* Git & GitHub, VS Code, Jupyter Notebook, Hugging Face, RoboFlow

# Certifications:

* [Advanced Learning Algorithms](https://coursera.org/share/9ae596e7a97ee7f3b3d4766ee7239f7a)
* [Supervised Machine Learning: Regression and Classification](https://coursera.org/share/91f22483c28e0e18991b35b8908473d4)