

Habiba Saleem

LinkedIn: www.linkedin.com/in/habiba-saleem123
GitHub: <https://github.com/habibaSaleem123>

Email: habiba.saleem2002@gmail.com
Mobile: +92 306 0556913

EDUCATION

National University of Computer and Emerging Sciences (FAST NUCES) <ul style="list-style-type: none">Bechler's of Sciences in Computer Science	August 2021 - Present
Beaconhouse College Program <ul style="list-style-type: none">Alevels in Pre-Engineering	April 2019 - June 2021

Honors and Awards

Dean's List <ul style="list-style-type: none">Achieved Dean's List recognition in Fall 2021, Spring 2022, Fall 2023 and Fall 2024 for outstanding academic performance.
Semester Position <ul style="list-style-type: none">Achieved Silver Medal in Fall 2023 and Bronze Medal in Fall 2024..

SKILLS SUMMARY

- Frontend:** React JS, Tailwind CSS, HTML5, CSS3, JavaScript (ES6+), Redux
- Backend:** Node.js, Express.js, MVC Architecture, Middleware (Express), JWT, OAuth, RESTful API, Flask
- Databases:** MongoDB, Sequelize, MySQL
- Tools:** Postman, Git/GitHub, js-cookie
- AI/ML:** TensorFlow, PyTorch, Scikit-learn, Fine-Tuning, CNN
- Data Science:** Exploratory Data Analysis (EDA), NLP
- Generative AI:** GPT, Transformers, LLMs, LangChain, RAG

PROJECTS

Kick Metrics | Football Analytics Web App

- Web application leveraging machine learning and data science to provide insights into football performance and strategy.
- Developed a full-stack analytics platform using **React.js**, **Redux**, **Node.js**, **Express.js**, and **MongoDB** for real-time player performance tracking and market value prediction.
 - Integrated **Python (Flask)** backend with machine learning models for performance scoring, trend analysis, and strategic planning.

SkinSolutions | AI-Powered Skincare & Haircare Consultancy Platform

- AI-driven web platform offering personalized beauty product recommendations and ingredient safety analysis based on user profiles and dermatological needs.
- Used **React.js** and **Tailwind CSS** to build a clean, responsive user interface.Developed a **Node.js + Express** backend with **MongoDB** to manage user profiles and product data.
 - Implemented an AI-based system to suggest routines and analyze product ingredients for safety and effectiveness, integrated **LLM-based chatbot** to answer skincare queries and guide users interactively.

AI-Powered C++ to Pseudocode Converter | NLP & Deep Learning Tool

- An AI-based tool that translates C++ code into human-readable pseudocode using a Transformer-based Seq2Seq model, enhancing code comprehension and learning.
- Built a **Transformer model** using **PyTorch** to convert complex C++ logic into simplified pseudocode.Preprocessed large code datasets, built vocabularies, and trained models on paired C++-pseudocode samples.
 - Tech stack: **Python**, **PyTorch**, **NLP Transformers**, **C++**, **Streamlit**.

Language Learning Tutor | AI-Powered Interactive LLM-Based Web App

- Streamlit-based AI language tutor that enables users to practice real-world conversations, receive AI-driven feedback, and improve fluency across multiple languages.
- Developed role-based conversation modules (e.g., Travel Agent, Interviewer) using **LLMs with context memory** for natural interactions.Integrated **Whisper AI** for speech-to-text and real-time pronunciation/grammar correction.
 - Enabled **text-to-speech** in multiple languages using **Deepgram TTS API** for immersive practice.

English-to-Urdu Neural Translator | RNN vs. LSTM Sequence Modeling

- Developed a neural machine translation system to convert English sentences into Urdu, comparing performance between traditional RNNs and improved LSTM architectures.

Academic Experience

Teaching Assistant (TA) <ul style="list-style-type: none">Provided academic support in Computer Networks, assisting 100+ students and 2 faculty members with concepts such as network protocols, OSI model, TCP/IP, routing, and network security	August 2024 - December 2024
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