AREEBA SHAKEEL

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COMPUTER SYSTEM ENGINEERING

**EDUCATION**

Ned University OF Engineering and Technology 9/2023 – 9/2027

* Bachelor of Science in Computer Science CGPA: 3.64
* Bachelor of Engineering

Intermediate 10/2021 – 10/2023

* BAMM-PECHS GOVT-COLLEGE For womenPercentage:84.09%

Matriculation 10/2008 – 10/2020

* Education Trust Nasra School Malir Morning, Karachi

**Academic Experience:**

Design a Swift Mart Operating Seamlessly Through Command Line Interface (CLI):

Apython-based application allowing users to conveniently purchase various items. robust functionality extends beyond mere transaction Storing transaction histories and buyer data with precision

**Design a Graphical User Interface (GUI) based Simple Calculator:**

A python based simple calculator work efficiently with different operations.

* Basic arithmetic operations + Additional functions: Square root (√) and square (x²).
* Error handling: Displays "Error" when invalid input or operation occurs.

**Medi Core Hospital Management System + GenAI Fitness Assistant (Flask, MySQL, Bootstrap, Stream lit, GROQ API)**

* Built a full-stack **Hospital Management System (HMS)** with role-based dashboards for Admins, Doctors, and Patients.
* Implemented features like real-time appointment booking, medical history tracking, dynamic listings, and secure login with access control.
* Independently built a GenAI Fitness Assistant for BMI, diet/workout plans, and health tips using Stream lit and Llama.

**Blog Website** **(Python, Flask, MySQL (PhpMyAdmin), Bootstrap, HTML, CSS):**

* Developed a Flask-based blog with admin dashboard for adding/editing posts stored in a database. Implemented secure login, blog CRUD operations, and a contact page.
* Used *MySQL (PhpMyAdmin)*for database integration and Bootstrap for responsive design.

**Vision AI Project (Machine learning):**

* Built and annotated custom datasets on Roboflow for object detection.
* Fine-tuned pre-trained models for real-time video inference.

**CERTIFICATIONS:**

* Certificate of Participation in Digital Skills Workshop 7/2019- 8/2019
* Certificate of Participation in Inter-school Math Olympiad (ISMO) 11/2015

**Skills:** PYTHON DEVELOPER, OOP, Flask, MS-WORD, MS-Excel, SQL, DSA

**Interests:** Embedded Computer Design, Machine learning, Front hand, back hand