



Ali Asghar Chakera

CS Senior at Habib University

AI & Machine Learning Enthusiast | Software Developer

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EXPERIENCE

HABIB UNIVERSITY

Resource Development Intern

Jan 2023 – Feb 2023 | Karachi, Pak

- Worked on Collection, Cleaning, Manipulation, and Organization of confidential data using Microsoft Excel and Python.

Teaching Assistant

Jan 2022 – Dec 2022 | Karachi, Pak

- Worked closely with instructors for designing and execution of coursework
- Assisted students with Verilog and Object Oriented Programming

Student Mentor

Aug 2022 – Dec 2022 | Karachi, Pak

- Worked closely with the Office of Academic Performance to assist freshmen

Office of Admissions Intern

Dec 2019 – Jan 2020 | Karachi, Pak

- Data Cleaning, Organization and Entry in Microsoft Excel

EDUCATION

HABIB UNIVERSITY BACHELOR'S OF SCIENCE IN COMPUTER SCIENCE

Aug 2020 - May 2024 | Karachi, Pak

- CGPA 3.48

AGA KHAN HIGHER SECONDARY SCHOOL INTERMEDIATE PRE-ENGINEERING

Aug 2018 - Jun 2020 | Karachi, Pak

- Secured A1 Grade (Overall 87%) in HSSC

MSB EDUCATIONAL INSTITUTE MATRICULATION SCIENCE

Aug 2005 - May 2018 | Karachi, Pak

- Secured A1 Grade (Overall 83%) in SSC

EXTRA CURRICULAR

Invent for the Planet 2023

48hr international design challenge hosted by Texas A&M University for tackling today's biggest challenges.

Secured 2nd position in Habib University.

ICPC Asia Regionals 2023

Qualified for the Regional round.

Gaming Club 2022

Served as the Vice President of the Gaming Club and actively organized several events.

Orientation Leader 2021

Planned and executed the New Student Orientation week.

SerVe Hamdast 2021

Fundraised to help an underprivileged school in the community.

SerVe Blood Drive 2020

IBA Leadership Conference 2020

TOOLS SOFTWARES & FRAMEWORKS

- Django
- Flutter
- React
- Flask
- MongoDB
- Verilog
- L^AT_EX
- SQL
- Markdown
- MS Office

SKILLS

- Social Media Networking & Management
- Public Relations
- Team Worker
- Conversationalist

LANGUAGES

- English
- Urdu
- Gujarati

AWARDS & HONORS

HU TOPS SCHOLAR HABIB UNIVERSITY

- 100% Scholarship for 4 year undergraduate studies

MERITORIOUS AWARD HABIB UNIVERSITY

- Outstanding Academic Performance in Intermediate

COURSES

- Computational Intelligence
- Algorithms: Design & Analysis
- Software Engineering
- Artificial Intelligence
- Operating Systems
- Nature of Computation
- Data Structures
- Computer Architecture
- Digital Logic & Design
- Object Oriented Programming
- Database Management Systems

COURSERA

- Supervised Machine Learning: Regression and Classification

DATA CAMP

- Intermediate SQL Queries

PORTFOLIO

(Hyperlinks attached)

OPTIMIZING ILLUMINATION: USING AN EVOLUTIONARY ALGORITHM TO OPTIMIZE ARTIFICIAL LIGHT IN ROOMS

EA | CI | EPHEM

Using an evolutionary algorithm to optimize the number and positioning of artificial lights in a naturally lit room, adapting to various daylight conditions throughout the day.

THEKEDAAR HATAO

FLUTTER | DJANGO

A cross-platform construction App that cuts out the need for a middleman by connecting users directly to vendors, giving estimates for construction materials, and providing a discussion forum for users.

ANIMAL RECOGNITION

CNN | KERAS | TENSORFLOW | SKLEARN

A robust convolutional neural network, trained on a Kaggle dataset of animal images, excels at recognizing animals even in challenging scenarios, showcasing its impressive adaptability and accuracy.

THE WORD GAME

WEAKAVL TREE | PYGAME | NLTK

Embark on an engaging word game! Use a set of alphabets to form as many valid words as possible. Our program employs a Weak AVL tree to verify word validity from a comprehensive dictionary instantaneously.

FLAPPY BIRD

VERILOG | FPGA

Experience the classic game of Flappy Bird on an FPGA. The Verilog implementation allows you to control the bird using a keyboard and enjoy vibrant visuals on a VGA output.

CRAZY TAXI

C++ | SDL | OOP

The popular game Crazy Taxi coded in C++ by using sprites with the help of the SDL library

EVENT MANAGEMENT SYSTEM

SQL | C# | SSMS

Our university's event resource management system efficiently tracks locations and resources, ensuring streamlined organization and enhanced coordination for successful events.

RISC V PIPELINED PROCESSOR

RISC V | VERILOG

A Verilog-based implementation showcases a pipelined RISC-V processor, offering enhanced performance and efficiency by enabling concurrent execution of instructions, and optimizing overall processing capabilities.

AIRLINE BOOKING SYSTEM

PYTHON | GRAPH | DIJKSTRA

Find the shortest route of flights

WORD BOOK

PYDICTIONARY | TRANSLATE

A dictionary cum translator coded in Python

OTHER PROJECTS

DOES ECONOMIC DEVELOPMENT LEAD TO ENVIRONMENTAL DECLINE

Collected and analyzed world data using multiple indicators to test against the hypothesis.