





Abdullah

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EDUCATION

B.Sc. in Computer Science

Namal University Mianwali, Pakistan

CGPA: 3.367/4.0

Major Courses

- Programming Fundamentals, Introduction to Computing, Object Oriented Programming, Discrete Mathematical Structure, Data Structures and Algorithms, Database Systems, Analysis of Algorithms, Theory of Automata and Formal languages, Operating Systems, Compiler Construction, Software Engineering, Artificial Intelligence, Intro to Human Computer Interaction, Programming Languages, Mobile Application Development, Computer Networks, Web Technologies, Machine Learning, Internet of Thing, Introduction to Parallel and Distributed Computing

HSSC (Pre-engineering)

Punjab College of Science, Lahore

Grade: A+

2016 – 2018

SSC (Science)

The Trust School, Lahore

2014 – 2016

EXPERIENCE

Teaching Assistant, Maths Department

Sophomore Level Course – Differential Equations

09/21 – 01/22

- Paper Marking
- Data Entry over LMS
- Problem solving

Research Assistant, Computer Science Department

03/21 – 08/21

- Deduction and Induction for AI systems – DeepAI

Teaching Assistant, Computer Science Department

Junior Level Course – Applied Probability

03/21 – 06/21

- Paper Marking
- Data Entry over LMS
- Problem solving

PROJECTS

Final Year Project (On Going)

Perimeter Testing of Pakistan's Online Web assets

- In this project, we are evaluating the security state of Pakistan's web assets. we are going through different set of tasks and checking every parameter. By the end of this project, we will provide a detailed report about the security state of every organization. All the results are being visualized over a Data Visualization Tool Kibana (ELK). Open Source tools are being used with our modifications.

IOT Projects

Course: Internet of things

- Smart Home
- Fire detection and tracking robo car
- Collision avoidance robo car
- RFID based Attendance system
- Laser based security system
- RFID based door lock system

Pepper Classification

Course: Machine Learning

Git repository: github.com/Abdullahtahir2022/CNN_Pepper_Classification/tree/master

- **Libraries:** Tensor flow, Keras
- This project was a comparison w.r.t accuracy, precision and recall of CNN Architectures i.e. Alex Net and a custom CNN.

Protocol Design

Course: Computer Networks

Git repository: github.com/Abdullahtahir2022/Protocol-Design

- Designed a custom protocol for TCP port scanning.

Pakistan Travel Guide (Web)

Course: Web Technologies

Git repository: github.com/Abdullahtahir2022/Web-Tech-Project/tree/master

- **Language and Framework:** HTML, CSS, bootstrap, jQuery
- Created a website. Provided user with functionality to search any city across the world to fetch restaurants, Land marks and transportation details from an API.

Pakistan Travel Guide (Android)

Course: Mobile Application Development

Git repository: github.com/Abdullahtahir2022/Pakistan-Travel-Guide/tree/master

- **Language and Database:** JAVA, Fire base
- Developed a travel app on Android studio. An API was used to fetch the real time details required by the features of app.

Face Mask Classification

Course: Artificial Intelligence

Git repository: github.com/Abdullahtahir2022/FaceMask_Classification/tree/master

- **Libraries:** Tensor flow, Keras
- A CNN Model was trained on people images wearing mask or no mask. In the end, it was deployed over a web interface.

Template Matching

Course: Artificial Intelligence

Git repository: github.com/Abdullahtahir2022/AI-course-project-1

- **Libraries** Pandas, Scipy
- Implemented an image template matching by use of Evolutionary Algorithm, the one proposed by Darwin. A complete scientific model was followed in this project.

AI Snail Game

Course: Artificial Intelligence

Git repository: github.com/Abdullahtahir2022/AI-project-1

- **Language:** Python
- Implemented a grid-based snail game using Arcade python library. An Intelligent game, in which snail chooses an optimal position with the help of Minimax Algorithm.

Data Science Project

Course: Analysis of Algorithm

Git repository: github.com/Abdullahtahir2022/Data-Science

- **Language:** Python
- Question was “Why is Pakistan like this?(economically)”. For this, I designed and implemented an Algorithm to compute the desired values on a provided Data-set. Then, statistical analysis was performed to see trends and patterns of generated values and a report was written. Algorithm was implemented in Python and data-set was provided by gapminder foundation.

Learning Management System

Course: Database Systems

Git repository: github.com/Abdullahtahir2022/Learning-Management-System

- **Language and Database:** HTML, CSS, PHP, mysql
- A full-fledged system with database connectivity for Students, Teachers and Administration for automation, delivery of courses and resources to the students. It also includes assignment grading, assignment submission, mark attendance, enrolment and related functionalities too.

Movie Search Engine

Course: Data Structure and Algorithms

Git repository: github.com/qazi112/DSA_Project

- **Language:** C++
- Sorting and storing a dataset in different data structures i.e. AVL, Hashing by separate chaining for comparison of time complexities and Efficiency.

Certification

- Penetration Testing, Incident Response and Forensics (**By IBM**)

SKILLS

- **Languages:** C/C++, Python, Javascript, PHP, CSS, HTML
- **Operating Systems:** Windows, Linux, kali (proficient)
- **Databases:** Mysql, Fire-base
- **Libraries/frameworks:** Numpy, Pandas, Tensorflow, Matplotlib, Scipy, Keras
- **Security tools:** Amass, host2ip, httprobe, nmap, Google LightHouse, sqlmap

LANGUAGES

- English
- Urdu

EXTRA CURRICULAR ACTIVITIES

- Media Head, Center of Excellence and Skills Development (CESD)
- Director HR, Namal Idea Club (NIC)
- Member, Namal Society for Social Impact (NSSI)
- International Eco Internship Programme – Community Service (WWF Pakistan)
- Scout, Punjab Boy Scouts Association

REFERENCES

Dr. Adnan Iqbal (PhD, NUST-Pakistan)

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Namal University Mianwali, Pakistan
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