



GHULAM ALI

Date of birth: 28 Feb 2002

Nationality: Pakistani

Gender: Male

CONTACT

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ABOUT ME

- Completed a **Bachelor's degree in Software Engineering**, gaining a solid foundation in Software Development Principles, Programming Languages, and Software Design Methodologies, as well as focusing on Advanced Data Analysis, Machine Learning, Artificial Intelligence, Data Science and Statistical Modeling. Gaining expertise in Data Manipulation, Predictive Analytics, and Data-Driven Decision-Making.

WORK EXPERIENCE

Lahore, Pakistan

● **Data Scientist** University of Health Sciences, Khayaban-e-Jamia Punjab, Lahore.

10 FEB 2021 – 10 DEC 2021 Okara, Pakistan

● **Research Assistant (Part Time)** University of Okara

1. **Data Collection and Preparation:** Assisting in the collection and preprocessing of data from various sources, such as databases, APIs, or surveys. Cleaning and transforming data to ensure its quality and suitability for analysis.
- **Data Analysis and Modeling:** Conducting exploratory data analysis to identify patterns, trends, and insights. Applying statistical techniques and machine learning algorithms to develop predictive models, classification models, or clustering models.
 - **Experimental Design and Hypothesis Testing:** Collaborating with researchers to design experiments and formulate hypotheses. Conducting hypothesis testing and statistical analysis to validate research findings and draw accurate conclusions.
 - **Research Literature Review:** Conducting comprehensive literature reviews to gather relevant information and identify existing research gaps. Summarizing and synthesizing research findings to support ongoing research projects.
 - **Programming and Scripting:** Utilizing programming languages such as Python, R to implement data analysis workflows, develop algorithms, and automate repetitive tasks. Writing efficient and maintainable code.
 - **Data Visualization:** Creating visually appealing and informative data visualizations, charts, and graphs to effectively communicate research findings.
 - **Research Collaboration:** Collaborating with faculty members, researchers, and other team members to contribute to ongoing research projects. Participating in research discussions, brainstorming sessions, and providing input based on data analysis results.
 - **Ethical Considerations:** Adhering to ethical guidelines and standards in data collection, analysis, and research practices. Ensuring data privacy, confidentiality, and compliance with ethical regulations.
 - **Data Management and Organization:** Organizing and managing research datasets, ensuring proper storage, security, and version control. Implementing data management best practices to facilitate efficient data retrieval and sharing.
 - **Continuous Learning and Skill Development:** Keeping up-to-date with the latest advancements in data science methodologies, algorithms, and tools. Actively participating in workshops, seminars, or online courses to enhance technical skills.
 - **Problem-solving and Critical Thinking:** Applying analytical thinking and problem-solving skills to address research

challenges. Identifying innovative approaches, proposing solutions, and adapting methodologies as needed.

- **Collaboration and Communication:** Collaborating effectively with other research assistants, team members, and faculty to achieve research objectives. Communicating research progress, results, and challenges in a clear and concise manner.

EDUCATION AND TRAINING

20 SEP 2019 – 22 DEC 2023 Okara, Pakistan

● **Bachelor's of Science in Software Engineering (16 years of education)** University of Okara, Pakistan.

- **Programming Languages:** Proficiency in multiple programming languages such as C, C++, Python, R or JavaScript.
- **Object-Oriented Programming (OOP):** Understanding and application of OOP principles and concepts, such as encapsulation, inheritance, and polymorphism.
- **Data Structures and Algorithms:** Understanding and implementation of common data structures (e.g., arrays, linked lists, stacks, queues) and algorithms (e.g., sorting, searching, graph algorithms).
- **Big Data Analysis:** Experienced in analyzing large-scale datasets using big data technologies and advanced analytics techniques. Proficient in handling and processing big data using tools like Hadoop, Spark, or NoSQL databases. Skilled in data extraction, data transformation, and data loading (ETL) processes. Strong knowledge of distributed computing and parallel processing to efficiently analyze and extract insights from massive datasets. Expertise in applying machine learning algorithms and statistical models to uncover patterns and trends in big data. Effective in translating complex findings into actionable insights for business stakeholders.
- **Machine Learning:** Understanding and application of machine learning algorithms, such as linear regression, decision trees, random forests, support vector machines, and neural networks.
- **Probability and Statistics:** Proficient in applying probability theory and statistical methods to analyze and interpret data. Skilled in descriptive statistics, hypothesis testing, regression analysis, and data visualization. Strong understanding of probability distributions, sampling techniques, and statistical inference.
- **Data Mining:** Knowledge of data mining concepts and techniques to extract meaningful patterns and insights from complex datasets.
- **Natural Language Processing (NLP):** Proficient in applying NLP techniques to analyze and extract valuable information from textual data. Skilled in text preprocessing, tokenization, part-of-speech tagging, and named entity recognition.
- **Problem-solving and Critical Thinking:** Strong analytical and critical thinking skills to identify and solve data-related problems and make informed decisions.
- **Continuous Learning:** A commitment to staying updated with the latest trends, methodologies, and tools in the field of data science through continuous learning and professional development.
- **Communication and Collaboration:** Strong communication skills to effectively collaborate with team members, stakeholders, and clients, both orally and in writing.

Website www.uo.edu.pk | Final grade 3.26 / 4.00

● **100 Days of Code: The Complete Python Pro Bootcamp** Udemy

Website <https://www.udemy.com/certificate/UC-181b36d2-388c-4067-b960-e7b5411ed42f/>

● **The Data Science Course: Complete Data Science Bootcamp 2024** Udemy

Website <https://www.udemy.com/certificate/UC-1966bf66-1850-4711-a721-b69edca9ed66/>

● **Master Class - Creative Problem Solving & Decision Making** Udemy

Website <https://www.udemy.com/certificate/UC-81a6e65a-7d50-4446-979c-ae7d7fef03c/>

LANGUAGE SKILLS

MOTHER TONGUE(S): Urdu

Other language(s):

English

Listening B2

Reading B2

Writing B2

Spoken production B2

Spoken interaction B2

DIGITAL SKILLS

Python Programming Language | Data Visualization | Data Cleaning and Wrangling Techniques | Database Management | Data Mining | Machine Learning | Statistical Analysis | Artificial Intelligence | Model building, Evaluation, and Optimization | Text Mining and Natural Language Processing (NLP) | Problem-solving and Critical Thinking | Data Warehousing and Big Data Concepts | Version Control Systems (Git) | Communication and Storytelling Skills to Effectively Present Findings

HONOURS AND AWARDS

● **PM Laptop Scheme, HEC Scholarship**

- Awarded the Laptop for highest achiever in class by Higher Education Commission of Pakistan.
- Awarded HEC (Higher Education commission) of Pakistan Merit and Need Based Scholarship for undergraduate program.

RECOMMENDATIONS

● **Dr. Muhammad Ilyas** Professor, Department of Robotics and Mechatronics

Strongly Recommended

Email m.ilyas@kbtu.kz | Phone (+7) 7478652964

● **Dr. Fridoon Jawad Ahmed** Professor

Strongly Recommended

Email drfridoon@gmail.com | Phone (+92) 3008463801

● **Mr. Zohaib Aslam** Senior Software Engineer / Web Developer

Strongly Recommended

Email amweb@uhs.edu.pk | Phone (+92) 3234213215

● **Dr. Huma Saeed Khan** Associate Professor

Strongly Recommended

Email humasaeedkhan@uhs.edu.pk |