

Abdul Wahab Aziz

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PROFILE SUMMARY

Motivated and dedicated Computer Science professional currently working as a Research Assistant, with experience in undergraduate teaching, academic support, and research activities. Possessing strong knowledge of core computer science concepts, along with practical expertise in software development and data science. Committed to fostering student learning through innovative teaching methodologies, effective communication, and research-informed instruction. Eager to contribute as a Lecturer by delivering high-quality education, engaging in scholarly research, mentoring students, and supporting the academic mission of the university

EDUCATION

MS Computer Science (3.64/4.00) <i>COMSATS University Islamabad.</i>	2026
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BS Computer Science (3.10/4.00) <i>COMSATS University Islamabad, Wah Cantt.</i>	2018
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RELEVANT COURSEWORK

Object Oriented Programming | Data Structures | Analysis of Algorithm | Web Development | Computer Architecture | Machine Learning | Operating Systems | Artificial Intelligence | Big Data Analytics | Data Mining | Databases | Theory of Automata | Compiler Construction

WORK EXPERIENCE

1. Research Assistant (Riphah International University) Since Sep 2025

- Key Assignments
 - Writing Research Grants with Senior Faculty Members
 - Writing Research Papers
 - Work on Industrial Projects
 - Providing Teaching Support for Graduate Courses
 - Conducting Lab sessions

2. Lecturer at COMWAVE Institute (SUIT) Since May 2025

- Teach both theory and lab sessions for undergraduate courses including:
 - Programming Fundamentals
 - Object Oriented Programming (OOP)
 - Data Structures
 - Artificial Intelligence
- Design and deliver lectures, assignments, and lab manuals tailored to course outcomes.
- Develop and evaluate quizzes, projects, and exams to assess student performance.
- Provide academic mentoring and guidance to students outside of class hours.
- Integrate hands-on programming exercises using C++ and Python.
- Foster problem-solving and algorithmic thinking in foundational programming courses.

3. Data Science Intern at DevelopersHub Corporation Dec-2024 To Feb-2025

Text Sentiment Analysis on IMDB Dataset

- Developed a text classification model to predict sentiment (positive/negative) from movie reviews.
- Implemented TF-IDF for feature extraction and trained Logistic Regression and Naive Bayes models for classification.

Fraud Detection System

- Built a fraud detection model using Random Forest to classify credit card transactions.

- Addressed class imbalance using under sampling techniques and evaluated model performance using precision, recall, and F1-score.

Employee Attrition Prediction

- Developed a machine learning model to predict employee attrition using HR analytics data.
- Implemented Random Forest and Logistic Regression, performed SHAP-based explainability, and provided actionable HR strategies to reduce turnover.

Disease Diagnosis Prediction

- Built a medical prediction system to classify diseases (diabetes, heart disease) using Gradient Boosting, SVM, and Neural Networks.
- Utilized SHAP for explainability and provided data-driven healthcare insights for early diagnosis.

Loan Default Prediction

- Designed a classification model using Light GBM and SVM to assess loan applicants' default risk.
- Handled class imbalance with SMOTE, evaluated model performance with F1 Score and Precision, and generated lender recommendations to mitigate financial risks.

Housing Price Prediction

- Implemented Linear Regression, Random Forest, and XGBoost models from scratch to predict house prices.
- Evaluated models using RMSE and R^2 metrics and analyzed feature importance to identify key drivers of pricing.

4. Front End Intern at TPWITS

Jan 2025- Apr 2025

- Developed dynamic and user-friendly front-end interfaces and dashboards using React and modern web technologies.
- Integrated APIs to fetch and display real-time data from the backend using web sockets or axios, ensuring seamless user interaction.
- Optimized front-end performance, enhancing responsiveness and user experience.
- Collaborated with backend teams to align UI components with server-side functionalities.

PRIMARY SKILLS

Python | Power BI | MS Excel | Orange | Weka | KNIME | SQL

SECONDARY SKILLS

HTML | CSS | React JS | JavaScript | Boot Strap | Block chain technology | LLM Integration | NLP

SOFT SKILLS

Team Work | Problem Solving | Critical Thinking | Adaptability | Positive Attitude | Attention to Details | Active Listening | Empathy | Open Minded

CERTIFICATES & COURSES

GIKI/NAVTTTC High Impact IT Training

Aug 2024- Jan 2025

- Data Science
- Machine Learning
- Artificial Intelligence

Active Listening

Oct 2024

- Coursera

LANGUAGES

- English (Intermediate)
- Urdu (Fluent)
- German (Basic)
- French (Basic)
- Arabic (Basic)

INTERESTS

- Book Reading
- Poetry
- Cricket