

OBAID RAZA

📍 Islamabad, Pakistan

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PROFILE SUMMARY

Motivated and academically inclined **Data Science graduate (MS, 2026)** with strong foundations in **Machine Learning, Deep Learning, Statistical Analysis, and Data Analytics**. Experienced in applying data-driven techniques to real-world problems through research-focused projects and a thesis centered on **Speech Emotion Recognition using Deep Learning**. Passionate about teaching, mentoring, and contributing to undergraduate and postgraduate education as a **Visiting Lecturer in Data Science**. Possesses hands-on experience with Python, data visualization, and academic research, complemented by professional exposure in higher education institutions.

ACADEMIC QUALIFICATIONS

Master of Science (MS) in Data Science

Air University, Islamabad | *Completed: January 2026*

Key Coursework:

- 📖 Machine Learning
- 📖 Deep Learning
- 📖 Natural Language Processing
- 📖 Statistical Data Analysis
- 📖 Big Data Analytics
- 📖 Data Mining
- 📖 Research Methods in Data Science

MS Thesis:

"Human Speech Recordings Based Emotion Detection using Deep Learning (IEMOCAP Dataset)"

- Proposed a **hybrid CNN–BiLSTM model with Attention Mechanism** for Speech Emotion Recognition (SER).
- Utilized the **IEMOCAP benchmark dataset** for emotion classification.

- Performed **audio preprocessing**, feature extraction (MFCCs, spectral features), and label encoding.
- Evaluated model performance using **Accuracy, Precision, Recall, F1-score, and Confusion Matrix**.
- Compared multiple experimental setups and demonstrated improved recognition performance through attention-based learning.
- Tools & Technologies: **Python, TensorFlow/Keras, Librosa, NumPy, Pandas, Scikit-learn**.

Bachelor of Science (BS) in Computer Science

Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi | 2017 – 2021

CGPA: 3.41 / 4.00

TEACHING & ACADEMIC INTERESTS

- Data Science Fundamentals
- Machine Learning
- Deep Learning
- Python Programming
- Statistics & Probability for Data Science
- Data Visualization & Analytics
- Research Methodology
- Final Year Project (FYP) Supervision

RESEARCH INTERESTS

- Speech & Audio Signal Processing
- Emotion Recognition Systems
- Deep Learning Architectures
- Multimodal Machine Learning
- Natural Language Processing
- Applied AI in Education & Healthcare

TECHNICAL SKILLS

Programming & Tools

- Python (NumPy, Pandas, Matplotlib, Seaborn)
- TensorFlow / Keras
- Scikit-learn
- Librosa
- Power BI
- Microsoft Excel (Advanced)

Data Science & ML

- Data Preprocessing & Feature Engineering
- Supervised & Unsupervised Learning
- Model Evaluation & Validation
- Deep Neural Networks (CNN, LSTM, BiLSTM)
- Attention Mechanisms

Other Skills

- Research Writing & Documentation
- Academic Presentation Skills
- Data Visualization & Dashboards

PROFESSIONAL EXPERIENCE

Data Analyst/IT Officer

Ministry of Climate Change & Environmental Coordination, Pakistan | Jan 2026 – *to date*

- Working in the PSDP Project “Strengthening the Technical Capacities of Ministry of Climate Change”
- Managing and maintaining structured datasets of officials and employees to ensure data accuracy and consistency
- Analysing organizational and project data to generate insights, dashboards, and reports for decision-making
- Developing and optimizing data collection, cleaning, and processing workflows using analytical tools and IT systems

Monitoring & Evaluation /IT Officer

Higher Education Commission (HEC), Islamabad | June 2023 – Jan 2026

- Worked on \$400Million World Bank-funded Higher Education Development in Pakistan (HEDP) Project.
- Collected, processed, and analyzed institutional data for reporting and decision-making.
- Assisted in dashboards and data summaries for monitoring academic initiatives.
- Provided IT and technical support within higher education environments.
- Coordinated with universities, faculty members, and administrative stakeholders.
- Involved in data collection and gathering activities.

IT Support Engineer

Riphah International University, Islamabad | Feb 2023- June 2023

- Supported academic and administrative staff with system and software issues.
- Assisted in maintaining IT infrastructure supporting academic activities.

IT Support Engineer

Higher Education Commission (HEC), Islamabad | Oct, 2021- Jan 2023

- Supported academic and administrative staff with system and software issues.
- Assisted in maintaining IT infrastructure supporting academic activities.
- Provide technical support to HEC employees which involve both system level and network level support.
- Managing the CRM to handle and resolve the complains using remove access softwares.

CERTIFICATIONS

- Python for Data Science, AI & Development – *Coursera*
- Power BI Fundamentals – *Coursera*
- Modern Data Warehouse Analytics – *Coursera*
- Google Analytics 360 – *Coursera*
- Microsoft Excel for Data Analysis – *Coursera*

ACADEMIC PROJECTS

- Machine Learning–based Classification Models
- Deep Learning Image & Audio Classification Projects