

Muhammad Waseem Sajjad

AI / Machine Learning Engineer • Educator and Researcher

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PROFILE

Dedicated computing educator and AI/ML researcher with an M.S. in Information Technology (CGPA 3.25/4.0, University of Sargodha) and over 4 years of combined teaching and research experience. Expertise spans machine learning, deep learning, computer vision, and full-stack web development. Research-active with two journal papers currently under review in internationally recognized publications. Proven track record of curriculum design, student mentoring, and translating complex technical concepts into accessible, structured learning experiences. Committed to combining research excellence with impactful teaching to contribute to mission of producing industry-ready computing graduates.

Languages: Python, JavaScript, R, Java, SQL, MATLAB

AI / ML: Machine Learning, Deep Learning, Computer Vision, Model Training & Evaluation, Feature Engineering

Data: Pandas, NumPy, Scikit-learn, Data Cleaning, Statistical Modeling, Visualization

Web & Tools: React.js, HTML, CSS, REST APIs, Git, Linux

Other: Database Systems, IT Technician, Web Scraping, Scientific Writing, Technical Mentoring

EXPERIENCE

Technical Support & Training Assistant

Bioinfocamp, Islamabad | Mar 2023 – Nov 2023

- Built and demonstrated Python and R workflows for biomedical and tabular data analysis used in trainee projects.
- Mentored learners through implementing ML pipelines — data cleaning, model training, and evaluation.
- Translated research-style notebooks into reusable scripts and learning materials for the team.

Coordinator — Technology & Learning

HEC Internship Program | Oct 2022 – Feb 2023

- Provided technical instruction and digital-tooling support to students across multiple programs.
- Worked with faculty to debug platform issues and roll out online academic tools at scale.

Document Controller

China Civil Engineering Construction Corporation (CCECC) | SEP 2024 – Present

- Maintain technical documents and project databases; coordinate cross-team reporting workflows. (Non-engineering role taken alongside continued AI/ML self-study.)

SELECTED PROJECTS & RESEARCH

Tumor Grade Estimation from Gene Expression Profiles *(M.S. Thesis)*

- Built ML pipeline (Python, Scikit-learn) to classify tumor grades from high-dimensional gene-expression data; handled feature selection, class imbalance, and cross-validated evaluation.

Tumor Detection from Medical Images using Computer Vision

- Trained image-analysis models for early-stage tumor detection; applied preprocessing, augmentation, and performance benchmarking.

Job Listings Web App with Web Scraping (B.S. Final Year Project)

- Built a website that aggregates job advertisements via web scraping; covered scraper, backend, and front-end.

EDUCATION

M.S. in Information Technology

2024

University of Sargodha (UOS), Sargodha

CGPA: 3.25 / 4.0 • Thesis: Tumor Grade Estimation using Gene Expression Profiles

B.S. (Hons) in Information Technology

2021

University of Education, Lahore — JBD Campus

CGPA: 3.52 / 4.0 • FYP: Job Advertisements Aggregator using Web Scraping

PUBLICATIONS & PREPRINTS

- Sajjad W., Din N. M., Hussain A. — Tumor Grade Estimation using Gene Expression Profiles. Journal of Biomolecular Structure and Dynamics (submitted).
- Sajjad W., Saleem K., Fatima A. — Machine-Learning-Based Image Analysis for Early-Stage Tumor Detection. Journal of Artificial Intelligence Research (submitted).

CERTIFICATIONS

- Data Analysis with R — Google (2024)
- Data Analysis Expert — Bioinfocamp (2024)
- Certified Trainer — Technical support & online tools training (2024)
- Documents Controller — CCECC (2024-Present)