

Muhammad Humayun

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PROFESSIONAL SUMMARY

Computer Science graduate focused on Machine Learning and AI systems. Experienced in model training, feature engineering, data preprocessing, and deploying ML solutions within scalable applications. Strong foundation in data structures and algorithms.

PROFESSIONAL EXPERIENCE

Software Engineering Intern (AI Integration)

Jul 2025 – Aug 2025

Nexium

Lahore, PK-PB

- Integrated pre-trained ML models to personalize user experiences, increasing engagement by 30% (Python, Hugging Face).
- Automated data-driven workflows with n8n, reducing manual tasks by 40% and improving system responsiveness.
- Engineered backend services and APIs for ML model integration, improving reliability and reducing latency by 25%.
- Developed intuitive dashboards and interactive visualizations to monitor AI model outputs, enhancing stakeholder insights.

Full Stack Developer Intern (MERN Stack)

Jun 2024 – Sep 2024

EZ Technologies

Islamabad (Remote), ICT

- Designed and deployed predictive analytics features by applying ML techniques to user behavior data, improving decision-making accuracy by 20%.
- Optimized database queries and built data pipelines to support ML workflows, reducing data retrieval time by 40%.

PROJECTS

Handwritten Digit Recognition | Python, NumPy, scikit-learn, TensorFlow

Jan 2026

- Implemented logistic regression and neural network models to classify MNIST digits, achieving 96% test accuracy.
- Engineered input features and applied regularization techniques to prevent overfitting.
- Visualized model performance and confusion matrices to identify improvement areas.
- Documented codebase with inline comments and README following clean code and version control best practices using Git.

Predictive Housing Price Model | Python, scikit-learn, Pandas

Dec 2025

- Developed regression model to predict housing prices based on real-world dataset, achieving 92% accuracy on test set.
- Engineered feature pipelines and applied normalization techniques, improving model convergence and stability.
- Applied model evaluation metrics (RMSE, MAE) to iteratively improve model performance.

EDUCATION

University of Central Punjab

Lahore, PK-PB

Bachelor of Science in Computer Science

Oct 2021 – Feb 2026

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript

Frameworks & Libraries: NumPy, Pandas, Matplotlib, TensorFlow, scikit-learn

Databases: SQL, MongoDB

Machine Learning: Linear Regression, Logistic Regression, Neural Networks, Decision Trees, Model Evaluation, Feature Engineering, Gradient Descent, Regularization

Concepts: Data Structures, Algorithms, Object-Oriented Programming (OOP), REST APIs, Backend Development

Tools: Git, GitHub, n8n

CERTIFICATIONS

Machine Learning Specialization — Coursera (Andrew Ng) (In Progress)

Python for Data Science and Machine Learning — Coursera