

ABDULLAH MEHMOOD

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PROFILE

I'm Abdullah Mehmood, I am a Data Science practitioner, completed my BSCS at The University of Lahore | Sargodha Campus. My technical foundation was built on strict logic building and object-oriented programming across multiple languages (Python, C++, Java, Kotlin), but my core focus is strictly on data science. My current work involves configuring robust local ML environments utilizing tools like Weights & Biases for experiment tracking, and applying Operations Research to practical problems, such as retail inventory optimization. I am actively building systems that require rigorous mathematical modeling and backend data logic.

EDUCATION

University of Lahore <i>Bachelor of Science in Computer Science</i> • CGPA: 3.58 / 4.0	Sargodha, Pakistan 2022 – 2026
Reader Group of Colleges <i>Intermediate</i> • Percentage: 64.7%	Sargodha, Pakistan 2020 – 2022
Personality Grooming High School <i>Matriculation</i> • Percentage: 78.2%	Sargodha, Pakistan 2018 – 2020

TECH STACK

Machine Learning & Data Science: [Python](#) [Mathematical Modeling](#) [Operations Research](#)

Infrastructure: [Requests](#) [Git](#) [GitHub](#) [Docker](#) [Linux](#)

Legacy Android Dev: [Kotlin](#) [Jetpack Compose](#) [Android SDK](#) [Flutter](#) [Firebase](#) [XML](#)

Other: [JSON](#) [Vibe Coding](#)

PROJECTS

Cryptocurrency Volatility Forecasting | *Python, Pandas, NumPy, TensorFlow/PyTorch*

- Engineered a predictive time-series model utilizing a Long Short-Term Memory (LSTM) neural network to forecast Bitcoin and broader market volatility.
- Architected robust data pipelines to extract, clean, and normalize historical financial datasets, ensuring high-quality inputs for model training.
- Evaluated model performance using rigorous mathematical loss functions and optimization algorithms to minimize sequential prediction error.

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Agricultural Computer Vision & Diagnostics | *Python, OpenCV, ResNet50V2, Grad-CAM*

- Developed a deep learning image classification model employing a ResNet50V2 architecture to accurately identify and diagnose plant diseases from leaf imagery.
- Implemented automated image processing and data augmentation workflows to scale the training dataset, significantly improving model generalization and classification accuracy.
- Integrated Grad-CAM visualizations to interpret model decision-making, mapping spatial features critical to disease identification.

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Amazon Review Sentiment Analysis | *Python, NLTK/Spacy, TensorFlow/Keras*

- Built a sequential sentiment analysis model utilizing a Bidirectional LSTM to process complex textual data from Amazon reviews.
- Designed text preprocessing pipelines including tokenization, stop-word removal, and vectorization to format raw data for deep learning ingestion.
- Captured both past and future contextual dependencies in natural language, effectively classifying sentiment polarity across large datasets.

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CERTIFICATIONS

Certified Ethical Hacking (v12) Specialization | *LearnKartS / Coursera* Issued: Aug 2025 | Credential ID: D5WSTUQ34AGF

- Completed a comprehensive 4-course specialization covering ethical hacking fundamentals, system security, and advanced cyber threats.
- Demonstrated proficiency in vulnerability assessment, penetration testing, threat detection, and incident response through practical, real-world scenarios.



Defronix Certified Junior Security Practitioner (DCjSP) | *Defronix Cyber Security* Issued: Oct 2025 | Credential ID: DCJSP1353

- Awarded Certificate of Completion for fulfilling all requirements to be certified as a Junior Security Professional.



Advanced Cybersecurity | *LearnKartS / Coursera* Issued: Aug 2025 | Credential ID: 6N5QMGA78YFL

- Successfully completed the online non-credit course focusing on advanced cybersecurity concepts and mitigation strategies.



System and Network Security | *LearnKartS / Coursera* Issued: Aug 2025 | Credential ID: CTN4U3K7DSRV

- Successfully completed the online non-credit course focusing on securing system infrastructures and defending network boundaries.



Ethical Hacking Fundamentals | *LearnKartS / Coursera* Issued: Aug 2025 | Credential ID: K9LVTWAE5NEY

- Successfully completed the online non-credit course focusing on the core principles and methodologies of ethical hacking.



ACHIEVEMENTS

- Secured 2nd position in the Speed Programming Competition at the University of Lahore.