




Salman Khan

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 <https://github.com/KhanzadaSalman> **Portfolio:** <https://khanzadasalman.github.io>

Data Science graduate skilled in Python, machine learning, deep learning, and NLP. Experienced in predictive modeling, text analytics, and data visualization, with a passion for applying AI to real-world challenges in hate speech detection, healthcare, and business decision support.

EXPERIENCE

MS Thesis Researcher | Shifa Tameer-e-Millat University, Islamabad Jan 2025 – Aug 2025

- Conducting research on Hate Speech Detection in Roman Urdu using advanced deep learning techniques.
- Designed and implemented a Depth-wise Separable Convolutional Neural Network (DSCNN) to improve classification accuracy.
- Integrated multiple embeddings (XLM-R, FastText, LASER, ELMo) to evaluate performance on the RUHSOLD dataset.
- Achieved superior predictive performance compared to baseline models, showcasing the advantages of the multi-scale DSCNN approach.
- Focused on real-world applications of NLP for low-resource languages.

Data Science Intern (Virtual) | British Airways – Forage Internship Aug 2025

- Analyzed 10,000+ flight records to evaluate passenger eligibility for lounge access.
- Segmented destinations into business, leisure, and labor routes using Tier 1 & Tier 3 criteria.
- Generated actionable insights on travel demand patterns, improving understanding of route-based passenger behavior.
- Delivered results through Excel dashboards and structured reports, enhancing decision-making for business strategy.

PROJECTS

Spam Email Prediction | Python | Aug 2024

Technologies/Skills: Python, Scikit-learn, NLP, Logistic Regression, Naïve Bayes

- Developed a machine learning model to classify emails as spam or not spam.
- Implemented NLP preprocessing (tokenization, stop-words removal, TF-IDF).
- Achieved 95% accuracy, demonstrating effectiveness in filtering malicious and unwanted emails.

Lung Cancer Prediction | Python | Mar 2024

Technologies/Skills: Python, Scikit-learn, Random Forest, Decision Trees, Data Preprocessing

- Built a predictive model to identify potential lung cancer cases using patient data.
- Applied feature engineering and hyperparameter tuning to optimize model performance.
- Achieved 90% accuracy, supporting early detection in healthcare applications.

Sales Data Analysis Dashboard | Excel | Oct 2023

Technologies/Skills: Excel (Pivot Tables, Charts, VLOOKUP), Data Visualization

- Designed an interactive dashboard to analyze sales performance across regions, customer demographics, and order status.
- Visualized sales trends and identified key business insights, improving data-driven decision-making.

EDUCATION

MS Data Science | Shifa Tameer-e-Millat University, Islamabad Dec 2022 - Aug 2025

Islamabad, Pakistan

CGPA: 3.5 / 4.0

BS Mathematics | Shaheed Benazir Bhutto University Sheringal Oct 2018 - Dec 2022

Dir Upper, KPK, Pakistan

CGPA: 3.4 / 4.0

SKILLS

- **Programming Languages:** Python, R, SQL, C++
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Keras, NLTK, Matplotlib, ggplot2
- **Machine Learning & NLP:** Sentiment Analysis, Text Classification, Word Embeddings (Word2Vec, TF-IDF), Transformers (BERT).
- **Deep Learning:** CNN, RNN, LSTM, Transformers.
- **Data Analytics & Visualization:** Tableau, Power BI, Excel (Pivot Tables, VLOOKUP), Seaborn.
- **Databases:** PostgreSQL, MySQL.
- **Tools:** Jupyter Notebook, Google Colab, GitHub.

CERTIFICATIONS

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|---|-----------------|
| • Data Analysis Using Python — University of Pennsylvania (Coursera) | Jun 2023 |
| • Analytics with SQL and Python — Great Learning Academy | Jun 2024 |
| • Data Analytics Using Excel — Great Learning Academy | Jun 2024 |

COURSEWORK

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| • Machine Learning, Deep Learning, Math & state for data science, Tools & Techniques & Data Science. | 2024 |
| • NLP, Data Distribution Process, Information Retrieval, Research Methodology. | 2025 |

REFERENCES

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Shifa Tameer-e-Millat University,
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