Salman Khan

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GitHub: https://github.com/KhanzadaSalman | **Portfolio:** https://khanzadasalman.github.io

Data Science Master's graduate with specialized research in Natural Language Processing (NLP) and Deep Learning. Experienced in building predictive models and analyzing text data using Python, with a focus on Roman Urdu hate speech detection. Dedicated to bridging the gap between academic research and practical AI applications through interactive project deployments.

EXPERIENCE

AI & Machine Learning Intern | DevelopersHub Corporation (Remote)   **Dec 2025 – Jan 2026**
- Fine-tuned BERT for text classification and applied zero-shot learning for support ticket tagging.
- Developed a multimodal model combining image features and tabular data for housing price prediction
- Built machine learning pipelines for customer churn and heart disease prediction using Scikit-learn.

Graduate Researcher | **Shifa Tameer-e-Millat University, Islamabad**   **Nov 2024 – Aug 2025**
- Conducted research on hate speech detection for Roman Urdu text.
- Designed and trained a lite Depth-wise Separable Convolutional Neural Network (lite DSCNN) for text classification.
- Experimented with multiple text representations, including FastText and transformer-based embeddings.
- Developed an end-to-end NLP pipeline covering preprocessing, training, and evaluation.
- Evaluated models using accuracy and F1-score metrics.

Data Science Job Simulation Participant | **British Airways (via Forage)**   **Aug 2025**
- Completed a data science simulation based on real-world airline business problems.
- Cleaned and prepared structured customer data provided as part of the simulation.
- Analyzed customer booking behavior to identify likely ticket purchasers.
- Segmented flight routes to support decisions on VIP lounge access.
- Prepared a presentation summarizing insights and recommendations for stakeholders.

PROJECTS

Salman AI Assistant - Bilingual LLM Orchestration & Deployment   **Feb 2026**
Technologies: Python, Streamlit, Docker, Hugging Face, OpenRouter, Roman Urdu NLP, Git.
- Built and deployed a specialized Generative AI assistant with a model fallback system for uptime.
- Engineered a Python linguistic filter to preserve Roman Urdu accuracy and prevent bias.
- Containerized the app with Docker and hosted it on Hugging Face for 24/7 availability.
- Integrated a live floating chat widget into a professional portfolio using web embedding.

SpamGuard AI - Live Spam Detection System (Full-Stack ML Deployment)   **Feb 2026**
Technologies: Python, TensorFlow, FastAPI, Hugging Face, HTML/CSS, NLP, Git.
- Built and deployed a deep learning web application for real-time spam message classification.
- Developed a FastAPI backend to serve model predictions.
- Implemented a responsive frontend using HTML, CSS, and JavaScript.
- Deployed the application with automated updates via GitHub integration.

Live Spam Email Detection System (Full-Stack ML Deployment)   **Jan 2026**
Technologies: Python, Flask, Render, HTML/CSS, uv, Scikit-learn, NLP, Git.
- Built a web application to classify emails as spam or non-spam.
- Implemented the backend with Flask and a simple HTML/CSS frontend.
- Deployed the application on Render with Git-based version control.

Stock Market Trends Forecaster (Deep Learning)   **Dec 2025**
Technologies: Python, Keras (LSTM), Pandas, Matplotlib, Scikit-learn
- Developed a time-series prediction model using historical stock price data.
- Implemented an LSTM neural network to capture temporal patterns.
- Engineered a data pipeline to clean, normalize, and visualize financial trends for analysis.
- Achieved low Mean Squared Error, demonstrating strong predictive capabilities for volatile markets.

Personal Portfolio Website   **Oct 2025 – Present**
Technologies: HTML, CSS, Git, GitHub Pages, Web-Embed Integration.
- Designed and developed a responsive professional portfolio to showcase end-to-end data science projects.
- Integrated live AI demos using web-embedding to allow real-time interaction with deployed models
- Managed source code versioning and automated deployment using Git and GitHub Pages.

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 & Web:** Python, R, SQL, C++, HTML, CSS
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow/Keras, NLTK, Matplotlib, Flask
- **Machine Learning & NLP**: Sentiment Analysis, Text Classification, Word Embeddings, Transformers (BERT).
- **Deep Learning:** CNN, RNN, LSTM, Transformers.
- **Data Analytics & Visualization:** Tableau, Power BI, Excel (Pivot Tables, VLOOKUP), Seaborn.
- **Databases**: PostgreSQL, MySQL.
- **Tools & Platforms:** Git, GitHub, Render, uv, Jupyter Notebook, Visual Studio.

CERTIFICATIONS

- **AI & Machine Learning Intern** — DevelopersHub Corporation (Remote)   **Jan 2026**
- **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**
- **Basics of Python Programming** — OpenWeaver   **Apr 2023**
- **ChatGPT for Excel** — Great Learning   **Jun 2023**
- **Learning Data Analytics Foundations** — LinkedIn Learning   **Jul 2024**

COURSEWORK

- Machine Learning, Deep Learning, NLP, Math & Statistics for Data Science.
- Information Retrieval, Programming Fundamentals, Research Methodology.
- Data Structures & Algorithms, Distributed Data Processing.

REFERENCES

Dr. Raja Habib,   **Dr. Muhammad Fahad Khan,**
Assistant Professor,   Associate Professor,
Shifa Tameer-e-Millat University,   Shifa Tameer-e-Millat University,
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