

ADEENA RAMZAN

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Professional Summary

Entry-level Machine Learning Engineer with hands-on experience developing and deploying AI models using Python, TensorFlow, and PyTorch. Skilled in deep learning and natural language processing (NLP), with practical knowledge of model evaluation and cloud deployment. Eager to apply machine learning techniques to solve real-world problems and support automation in dynamic environments.

Education

Bachelor of Computer Science (BSc)

2023 – Present

University of Karachi (UBIT)

Intermediate in Pre-Engineering

2021 – 2023

St. Lawrence's govt. girls degree college

Work Experience

AI Trainee Intern — Wenawa (Hybrid)

September 2025 – Present

- Developed and optimized deep learning models for skin-disease detection using ResNet-50, achieving 78.3% validation accuracy across 5 classes after multi-stage fine-tuning and robust augmentation.
- Deployed real-time prediction systems via Gradio/Hugging Face Spaces; conducted research on open-source AI–UI integration repositories (Averion Labs Front-End).
- Built a Sindhi→Urdu/English translation tool using Google Translate API, Express.js backend, and custom frontend for seamless multilingual support.

WordPress Intern — Cloudbourne Consultancy

2025

- Built and maintained client websites with Elementor and custom CSS, enhancing theme responsiveness and resolving UI/performance issues.

Projects

- **AI Skin Disease Detection (Deep Learning / CNN):** Implemented a multi-class skin classifier with ResNet-50 transfer learning on DermNet (78.3% accuracy, 5 classes), using a 3-stage pipeline and benchmarking for speed-accuracy trade-off. Deployed as a Gradio app with Grad-CAM interpretability on Hugging Face Spaces [Demo]
- **Text Emotion Detection (NLP):** Designed and deployed an NLP-based text-emotion classifier using TF-IDF features and Logistic Regression, achieving 89.7% accuracy after preprocessing and model tuning. Implemented a Streamlit web app for optimized, real-time inference and interactive [Demo]
- **ML Prediction Suite (Customer Churn & Heart Health):** Built and deployed a Random Forest churn model (train 1.0, test 0.99, F1 0.9943, CV 0.995) with advanced tuning and SMOTE; developed a heart-disease risk classifier (83% accuracy). Both models exposed via Streamlit dashboards for real-time prediction and decision support. [Churn] [Heart Health].

Skills

- **ML, Deep Learning & NLP:** Python, Regression, Classification, Model Evaluation, Feature Engineering, Hyperparameter Tuning, Cross-validation, Neural Networks, CNNs, ResNet, MobileNet, Transfer Learning, Transformers, BERT, Text Classification, Sentiment Analysis
- **Web Development & WordPress:** WordPress, Elementor, Custom CSS, Theme Customization, Plugin Configuration, Responsive Design, Website Maintenance
- **Frameworks & Tools:** TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, FastAPI, Streamlit, Gradio, Hugging Face, Git, GitHub
- **Mathematics & Core:** Statistics, Probability, Linear Algebra, Calculus

Certifications

- Deep Learning Specialization (DeepLearning.AI)
- TensorFlow Developer Certificate (Google)
- N8N Chatbot Lab (DataCrums)
- AI Python for Beginners (DeepLearning.AI)
- Machine Learning Introduction for Everyone (IBM)
- Python Essentials 1 (Cisco)
- Python for Data Analysis: Pandas & NumPy (Coursera)
- Introduction to GitHub Concepts (DataCamp)
- Google Soft Skills Certification (Google)