# WANIA ZANIB

Machine Learning / AI Engineer

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## SUMMARY

B.S. Artificial Intelligence student (GPA 3.72) with internship experience building PyTorch-based deep learning pipelines, NLP classifiers, and end-to-end ML workflows. Built CNN and transformer-based models achieving up to 18% accuracy gains and 6.7× inference speedups across audio classification and NLP tasks.

## TECHNICAL SKILLS

**Languages:** Python, SQL, C++, HTML/CSS

**Machine Learning / Deep Learning**: PyTorch, ONNX Runtime, ResNet, CNN, RAG, LLM Fine-tuning, GradCAM, Transformers, NLP, Text Classification, Model Evaluation, TensorFlow/Keras, Scikit-learn,

**Data:** Pandas, NumPy, Feature Engineering, Data Preprocessing

**Databases:** Vector Databases, MySQL, SQLite, Supabase, Firebase

**Tools & Platforms:** Git, GitHub, LangChain, Mlflow, Jupyter, Docker, Hugging Face Hub, Kaggle, Gradio, Streamlit

## EXPERIENCE

### AI Engineering Intern — Genztechs, Faisalabad

Jun 2025 – Aug 2025

- Fine-tuned a multi-class text classifier on 40K+ labeled support tickets, boosting accuracy by 22% via systematic feature engineering and ensemble selection across 3 model architectures.
- Built end-to-end preprocessing and evaluation pipelines for structured tabular data, cutting engineer preprocessing time per training cycle by 30% and standardizing model comparison across 3+ architectures.

## PROJECTS

**VoiceGuard (Acoustic Deepfake Detection Engine)**

github.com/waniazanib/VoiceGuard

Nov 2025 – Dec 2025

Python, PyTorch, ONNX, CNN, Model Evaluation

- Resolved a 9:1 class imbalance across 25,380 audio samples via metadata-driven stratified sampling, boosting model accuracy by 18% over the baseline.
- Optimized deep learning inference pipeline 6.7× through profiling and operator fusion, enabling production-level throughput on CPU.
- Validated model integrity across 71,237 evaluation samples with automated data-quality checks before each release cycle.

**MoodFit**

github.com/waniazanib/Moodfit

May 2026

Python, PyTorch, RoBERTa, Scikit-learn, Supervised Learning

- Fine-tuned RoBERTa (125M-param LLM) on 56, 000+ labeled text samples for multi-label emotion classification, achieving ROC-AUC of 0.93 and PR-AUC of 0.75 across 7 emotional profiles.
- Engineered feature encoding and normalization pipeline for mood-fitness input data, reducing preprocessing time by 40%.

**Fake Job Detector (JobGuard)**

github.com/waniazanib/Fake_Job_Detector

Jun 2026

Python, NLP, Scikit-learn, TF-IDF, Text Classification

- Built a hybrid fraud-detection classifier on 2,682 test samples (130 fraud cases), achieving ROC-AUC of 0.978, PR-AUC of 0.860, and 100% precision at a 0.85 decision threshold.
- Designed a weighted ensemble combining text features (55%) and structured features (45%) via TF-IDF vectorization and benchmark comparison across multiple ML algorithms.
- Sourced and cleaned real-world job postings from Kaggle; applied NLP preprocessing pipeline reducing noise tokens by 35% before model training.

## EDUCATION

**B.S. Artificial Intelligence — National Textile University, Faisalabad**

Expected: Jun 2027

GPA: 3.72 / 4.00

**Relevant Coursework:** Machine Learning, Deep Learning, NLP, Data Structures & Algorithms, Linear Algebra, Statistics, OOP