Abdul Rauf

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☐ github | ☐ linkedin

Summary

Machine Learning Engineer with experience spanning from junior analyst roles to advanced ML engineering. Skilled in Python, SQL, and deep learning, with proven success in delivering scalable ML solutions, deploying APIs, and presenting insights to stakeholders. Strong foundation in data analytics and business intelligence enabling effective end-to-end AI solutions. and deployed customer churn prediction model, improving retention by 15%.

EXPERIENCE

Machine Learning Engineer
Invisible Technologies Inc

June 2025-Present
Remote

- Designed and deployed customer churn prediction model, improving retention by 15%.
- Built ETL pipelines for large datasets (10M+ rows), reducing data processing time by 40%.
- Automated feature engineering and model training pipelines, boosting team productivity.

Junior ML Engineer
Turing.com

Jan 2024-March 2025
Remote

- Assisted senior engineers in developing image classification CNN models for defect detection
- Performed data preprocessing, feature selection, and model evaluation on structured/unstructured datasets.
- Supported deployment of models and created Power BI dashboards for business insights.

AI/ML Intern
Arbisoft

Dec 2023-March 2023
Lahore

- Collaborated with senior engineers to develop and fine-tune ML models for client projects.
- Implemented data preprocessing pipelines in Python (Pandas, Scikit-learn) for model readiness.
- Conducted exploratory data analysis (EDA) to identify key trends and improve model features.

NOTABLE PROJECTS

Image Classification for Defect Detection (CNN)

- Developed a CNN to detect defects in manufacturing images
- Improved quality control, reducing manual inspection time by 30%.
- Achieved 95% accuracy with data augmentation + transfer learning.

Technologies: Python, TensorFlow, Keras, OpenCV, NumPy

Recommendation System for E-commerce

- Implemented collaborative filtering & content-based filtering.
- Increased product recommendation click-through rate by 12%.
- Integrated recommendation engine as a Flask API.

Technologies: Python, Scikit-learn, Pandas, Flask, SQL

Sentiment Analysis on Customer Reviews (NLP)

- Preprocessed 200k+ text reviews using NLTK & spaCy.
- Trained ML models achieving 92% F1-score.
- Built an interactive dashboard in Streamlit for visualization.

Technologies: Python, NLTK, spaCy, Scikit-learn, Streamlit

EDUCATION

Bachelor of Computer Science
Sukkur IBA University

Sep 2020 - Apr 2024

SKILLS

Programming & Tools: Python (NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch), SQL, Git
Machine Learning: Supervised/unsupervised learning, regression, classification, clustering, model evaluation
Deep Learning: Neural networks, CNNs, RNNs, Transformers