Mustassum Tanvir

AI DEVELOPER

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SUMMARY

Results-driven AI & Machine Learning Engineer with end-to-end experience in deploying intelligent systems across audio processing, computer vision, NLP, and time-series forecasting. Skilled in training Large Language Models (LLMs), customizing HuggingFace pipelines, and building Retrieval-Augmented Generation (RAG) workflows with vector databases. Adept at integrating machine learning features into scalable full-stack web applications using Python, React, and cloud infrastructure (AWS/GCP). Proven track record in real-time edge audio enhancement, autonomous trading algorithms, and AI-powered virtual assistants. Strong foundation in model optimization, data engineering, and cross-functional collaboration to deliver production-grade solutions.

EXPERIENCE

Fullstack AI Developer

Freelance

📅 11/2022 - Present

Independent contractor delivering AI and web development projects

- Engineered and deployed machine learning models for predictive analytics, time series forecasting, and process optimization.
- Designed and developed interactive web applications and dashboards using React, TailwindCSS, Node.js, and MongoDB.
- Built and fine-tuned deep learning models (LLMs, CNNs, RNNs) for applications in audio enhancement, computer vision, and NLP.
- Built and fine-tuned deep learning models (LLMs, CNNs, RNNs) for applications in audio enhancement, computer vision, and NLP.
- Created custom data pipelines for data ingestion, preprocessing, and feature extraction, ensuring ML-readiness.
- Crafted client-facing pitch decks and technical documentation to communicate AI-driven insights and solution value.

Senior Claims Officer

Appedology Pvt. Ltd

📅 02/2022 - 09/2022

Specialized in end-to-end claims management, regulatory compliance, and dispute resolution across high-volume insurance operations.

- **Negotiated and closed over 100+ settlements** for unpaid workers' compensation liens, reducing liability exposure by up to 35%
- **Resolved complex insurance claim disputes** by conducting forensic analysis of claim histories, payment records, and policy documentation
- **Collaborated with legal, underwriting, and provider relations teams** to ensure full compliance with federal, state, and industry-specific regulations
- **Streamlined claims processing workflows**, reducing average processing time by 20% through detailed audit trails and process optimization
- **Maintained 100% accuracy** in record-keeping, legal correspondence, and settlement logs using tools like MS Excel, Salesforce, and internal CRM systems
- **Generated actionable insights** through claims analytics and reporting, contributing to quarterly strategy reviews and performance dashboards

EDUCATION

Bachelors in Computer Science

Iqra University

📅 01/2020 - 11/2024

Intermediate in Computer Science

NCR CET

📅 01/2016 - 01/2019

KEY ACHIEVEMENTS

🏅 **1st Position GetInnovative4Impact**
Achieved 1st position in GetInnovative4Impact Industry 4.0 and IOT Competition

🏅 **1st Position Zindigi Price Startup Competition**
Achieved 1st position in Zindigi Prize Startup Competition

🏅 **Tied for Second Position IEEEP STEP'24**
Emerged tied for 2nd position in IEEEP STEP'24

LANGUAGES

| **English** | Native | **Urdu** | Proficient | **German** | Intermediate |

SKILLS

AI Development

Deep Learning   **Machine Learning**   **Computer Vision**   **Generative AI**   **RAG**   **LangChain**   **NLP**

Predictive Analytics   **MLOps**   **AWS**

Front End Development

React.JS   **React Native**   **Tailwind CSS**   **Shadcn/ui**   **FramerMotion**   **Javascript**   **TypeScript**

PROJECTS

ContractWalla

📅 12/2024 - 02/2025   📍 Karachi, Pakistan

A GPT for Lawyers
- Engineered an AI-powered legal assistant that streamlines contract review and document generation.
- Designed and trained deep learning models using DeepSeek R1 on AWS SageMaker for enhanced legal text analysis.
- Built a secure and scalable web app with React, Tailwind CSS, and AWS for real-time contract recommendations.
- Integrated GPT-based legal insights to assist lawyers in drafting and reviewing contracts efficiently.

TradeBotX

📅 03/2025 - 03/2025   📍 Karachi, Pakistan

Crypto Trading Bot
- Uses ML models (Linear Regression, XGBoost, LightGBM) to predict and execute trades on BNB/USDT.
- Tracks open/closed trades, leverage, P/L, and balance in real time with persistent state.
- Backend APIs provide instant trade predictions based on the last 20 candles.
- Built with React, ShadCN, and Tailwind CSS for a smooth trading experience.