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 Al-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 is, 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 Al-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
- 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

Igra University

= 01/2020 - 11/2024

Intermediate in Computer Science

NCR CFT

= 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

Al 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 Shadon/ui FramerMotion Javascript TypeScript

PROJECTS

ContractWalla

A GPT for Lawyers

- · Engineered an Al-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

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.