

MUHAMMAD UMAR TARIQ

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ARTIFICIAL INTELLIGENCE ENGINEER

Accomplished Artificial Intelligence Engineer with years of extensive experience in designing, deploying, and optimizing cutting-edge intelligent systems. Expert in leveraging deep learning, natural language processing (NLP), and advanced statistical techniques to solve complex business problems and drive data-driven decision-making. Proven track record of leading cross-functional teams in the development and implementation of scalable AI solutions, while maintaining a strong focus on MLOps for seamless deployment and continuous improvement. Adept at translating business needs into technical solutions, with a passion for pushing the boundaries of AI and machine learning to deliver impactful results.

AREAS OF EXPERTISE

- Software Project Management
- Technical Lead
- Agile Methodologies (SCRUM)
- Code Review & Refactoring
- Time Management
- Communication

Technical Skills

Artificial Intelligence:

Machine Learning (ML)

- Scikit-learn
- TensorFlow
- PyTorch
- AWS SageMaker

Natural Language Processing (NLP)

- NLTK, spaCy
- BERT, GPT, Transformers, Large Language Models (LLM)

Deep Learning

- CNNs, RNNs, GANs, LSTMs

Data Processing

- Pandas
- NumPy
- PySpark

Programming Languages:

- Python
- PHP
- C++

Web Frameworks:

- Django
- Flask
- FastAPI
- Laravel

Databases:

- MySQL
- PostgreSQL
- MongoDB
- Redis
- Vector Database

API Development and Integration:

- Restful API's
- OpenAI API

Containerization:

- Docker
- Kubernetes

Cloud Computing:

- Amazon Web Services(AWS)
- GCP

MLOps:

- MLflow
- Airflow

CI/CD Tools:

- Jenkins
- GitHub

PROFESSIONAL EXPERIENCE

G2i

AUG 2024 – PRESENT

Artificial Intelligence Engineer

- Architected and deployed RAG-based LLM systems for internal knowledge platforms, combining vector search, prompt engineering, and enterprise data integration to deliver accurate, context-aware responses at scale.
- Designed and optimized semantic search and embedding pipelines, improving information retrieval across internal documentation and significantly reducing time spent on manual data lookup.
- Engineered high-performance FastAPI-based microservices for real-time AI inference, ensuring low-latency responses and seamless integration with internal systems and third-party APIs.

KAHUNAS

MARCH 2024 – AUG 2024

Artificial Intelligence Engineer

- Developed an AI Coaching Assistant using deep learning techniques, including transformer models (BERT, GPT) for advanced natural language understanding and generation, and RNNs (LSTMs) for context-aware dialogue management, personalized recommendations, proactive alerts, and predictive analytics, driving client progress and automating progress reports.
- Incorporated Retrieval-Augmented Generation (RAG) to enhance response quality by integrating external knowledge sources, improving the accuracy and relevance of personalized recommendations and predictive analytics.

- ▶ Built and deployed ML models to classify activity, sleep stages, and stress from wearable sensor data, optimized for real-time edge deployment.
- ▶ Implemented natural language generation for real-time coaching insights and efficient conversation management, while establishing continuous learning feedback loops to refine decision-making algorithms through integrated machine learning and NLP models.

EMAAR

SEP 2022 – FEB 2024

Senior Backend Engineer

- ▶ As a Senior Backend Engineer, Designed and delivered a production-grade automation service for receipt analysis using OCR (Tesseract/AWS Textract) and NLP with SpaCy, transforming unstructured purchase receipts into structured, automation-ready financial data.
- ▶ Implemented comprehensive automated testing procedures using PyTest, which led to a significant 20% reduction in bugs reported after deployment.
- ▶ Optimized application performance by implementing advanced coding techniques and meticulous database optimization strategies, successfully reducing load times by up to 40%.

FREELANCE, PAKISTAN

Sep 2020 – Aug 2022

Backend Engineer

- ▶ As a Backend Engineer, Spearheaded the development efforts for a sophisticated and high-traffic e-commerce platform, overseeing the creation of a scalable and efficient backend system to ensure optimal performance and user experience.
- ▶ Implemented and maintained CI/CD pipelines, reducing release cycles by 30% and enhancing development efficiency.
- ▶ Containerized Microservices using Docker and orchestrated deployments using Kubernetes, and serverless technologies, ensuring scalability and reliability.

ALRAJHI EDUCATION, DUBAI, UAE

August-2019–June-2020

Backend Engineer

- ▶ Developed and optimized deep learning models for image and speech recognition projects, achieving 91% accuracy
- ▶ Developed and maintained RESTful and SOAP web services for smooth communication between applications.
- ▶ Engineered a unique cash organizer for the auction's website to facilitate user credit management, and implementing RabbitMQ for effective message queuing, ensuring seamless data flow.

TRIACE TECH, PAKISTAN

July-2018–July-2019

Full Stack Engineer

- ▶ Introduced metrics classes into booking API calls to enhance system performance, utilizing the web-based automation tool Selenium for improved testing efficiency.
- ▶ Crafted sophisticated web crawling algorithms that skilfully gather and organize pertinent data from websites, resulting in enhanced accuracy and expedited retrieval speeds.

EDUCATION & PROFESSIONAL BACKGROUND

BACHELOR OF INFORMATION TECHNOLOGY– UAF (University of Agriculture Faisalabad), 2018