Muhammad Anas Atiq

Eligible to work in the UK | Available Summer 2026
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Education

MSc Data Science, Northumbria University Newcastle   Sept 2025 - Present
Relevant modules: Statistical Programming, Advance Databases, Machine Learning, Big Data & Cloud Computing
BS Computer Science, NUCES Faisalabad, Pakistan   Aug 2019 - June 2023
Relevant modules: Data Science, Design and Analysis of Algorithms, Data Structures

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Technical Experience

Python Developer - Hoboetech, Lahore, Pakistan   March 2025 - Sept 2025
- Designed and implemented Python backend services to ingest, validate, and process external data sources, with a focus on correctness, fault tolerance, and maintainability
- Automated large-scale data collection using Scrapy and Selenium, handling edge cases, missing data, and schema inconsistencies
- Implemented data validation, logging, and monitoring to ensure correctness of processed datasets

Python Developer - CyberEvanglists, Lahore, Pakistan   July 2023 - February 2025
- Designed and maintained Python services (FastAPI) to expose structured data via clean APIs
- Worked with SQL-backed systems to retrieve, transform, and serve structured datasets
- Designed asynchronous task execution using Celery to decouple workloads, improve throughput, and handle retries and failure scenarios
- Containerised data-driven services using Docker and supported Linux deployments

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Projects

Mood-Aware Music Recommendation System | Python3, Pandas, Scikit-Learn
- Built a structured data processing pipeline to transform raw audio features into normalized inputs for distance-based algorithms
- Built reproducible pipelines with deterministic preprocessing to support testing and repeatable experiments
- Applied clustering techniques to group tracks by interpretable mood characteristics, focusing on feature selection and preprocessing choices

FAST Bot | Python3, Flask, React, Feedforward Neural Network
- Designed and implemented backend REST APIs in Python (Flask) to handle structured requests, responses, and validation logic
- Integrated machine-learning inference behind API endpoints, enabling automated decision responses with predictable and testable behaviour
- Designed testable REST endpoints with clear input validation and predictable responses

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Additional Experience

Nights Team Member (Part Time) - Vermont Hotel, Newcastle   December 2025 - Present
- Provided customer-facing support in a time-critical, operational environment
- Managed multiple concurrent requests while maintaining accuracy and professionalism

Teaching Assistant | FAST NUCES, Pakistan   August 2021 - June 2022
- Supported delivery of undergraduate computer science coursework by assisting students with problem-solving and technical concepts
- Reinforced clear communication and structured thinking by explaining programming in tutorials

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Technical Skills

Languages : Python, SQL, C++
Frameworks & APIs: FastAPI, Flask, REST APIs
Data & Tools: Pandas, Linux, Docker, Git, FastAPI, Flask, Azure
Automation & Testing: pytest (basic), data validation, logging, monitoring
Engineering Practices: asynchronous processing (Celery), containerisation, version control