Muhammad Asher Mehmood

Senior Python & Django Developer | AI / ML Engineer

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PROFILE

Results-driven Python & Django Developer and AI/ML Engineer with 3+ years of professional experience building production-grade back-end systems, REST APIs, and intelligent applications. Delivered a logistics SaaS platform integrating 60+ third-party APIs and developed 100+ APIs across multiple enterprise systems. Built multiple AI-powered systems including real-time facial recognition, security surveillance, and CNN-based image forgery detection. Experienced with server deployment on Contabo VPS (Linux, Nginx, Gunicorn). Holds an MS in Computer Science (GPA 3.37) with a strong foundation in deep learning, computer vision, and automation. IELTS 6.5 (B2 English).

TECHNICAL SKILLS

Languages	Python, JavaScript, SQL, HTML/CSS, PHP
Backend	Django, Django REST Framework (DRF), FastAPI, REST API Design, JWT Authentication, Celery, Redis
AI / ML / DL Pipelines	Machine Learning, Deep Learning, Computer Vision, NLP, LLM Integration, Generative AI, RAG
Data Science	Data Analysis, EDA, Data Visualization, Web Scraping, Pandas, NumPy, Matplotlib, Seaborn
Databases	PostgreSQL, MySQL, SQLite
DevOps / Tools	Git, GitHub, Docker, Postman, CI/CD, Agile/Scrum, Nginx, Gunicorn, Contabo VPS Deployment
Cloud (Learning)	AWS (EC2, S3) — actively upskilling

WORK EXPERIENCE

Senior Python & Django Developer
Oct 2024 – Present

Jelly Tech Storm (Pvt) Ltd — Faisalabad, Pakistan

- Architected a multi-courier aggregation SaaS platform (Bizknot) covering booking, real-time tracking, label generation, and automated payment workflows across multiple logistics providers.
- Integrated 60+ third-party courier APIs end-to-end — handling authentication, response normalization, retry logic, and rate limiting — reducing manual operations by approximately 70%.
- Designed and built 100+ DRF APIs bridging two large independent enterprise systems, enabling real-time data synchronization and seamless feature interoperability.
- Implemented asynchronous task queues using Celery and Redis for background processing, improving system throughput and reliability under high load.
- Containerized applications using Docker for consistent development and staging environments; deployed production systems on Contabo VPS with Nginx and Gunicorn.
- Optimized system performance via PostgreSQL query tuning, database indexing, and asynchronous task handling.
- Awarded the Emerging Star Award (January 2025) for outstanding technical delivery, innovation, and rapid professional growth.

Mobile Application Development Instructor (NAVTTC)
Feb 2026 – May 2026

Jelly Tech Storm (Pvt) Ltd — Faisalabad, Pakistan

- Delivered theoretical and hands-on Android development training to 20+ students under the NAVTTC government programme, covering architecture, UI/UX, debugging, and deployment.
- Mentored students in coding best practices, software development workflows, and industry-standard processes.

Full Stack Developer
Feb 2024 – May 2024

Cyber Hawks Technologies — Faisalabad, Pakistan

- Built responsive front-end interfaces using JavaScript and Ajax integrated with PHP back-end services; delivered features within sprint deadlines ensuring consistent UI/UX quality.

Python Developer & Data Scientist
Aug 2023 – Jan 2024

Punjab Institute of Nuclear Medicine (PINUM) — Faisalabad, Pakistan

- Served across three concurrent roles — Python Developer, Data Scientist, and DBA — managing and processing large-scale healthcare datasets.
- Led EDA initiatives using Pandas, Matplotlib, and Seaborn to uncover clinical patterns; built automated web scraping pipelines reducing manual data collection by 60%+.

PROJECTS

Bizknot — Multi-Courier Logistics SaaS Platform — *Django, DRF, Celery, Redis, PostgreSQL*

- Production SaaS platform integrating 60+ courier APIs with 100+ REST endpoints, automating end-to-end logistics — booking, real-time tracking, label generation, and payment processing at enterprise scale.
- Deployed on Contabo VPS with Nginx + Gunicorn; async task processing via Celery + Redis for reliability under high load.

Total Parco Mechanic Loyalty & Reward Allocation System — *Django, DRF, PostgreSQL, REST APIs*

- Built a full loyalty program platform for Total Parco mechanics, handling reward point allocation, redemption workflows, and tier management across 100+ API endpoints.
- Designed secure role-based access, automated reward calculation logic, and real-time data synchronization between field and back-office systems.

Vision Guard AI — Real-Time Security & Surveillance — *Django, YOLOv8, Dlib, OpenCV, SQLite*

- AI-powered surveillance system using YOLOv8 for person detection and Dlib face embeddings to distinguish authorized persons from intruders — achieving >95% recognition accuracy under varied lighting.
- Implemented liveness detection to prevent spoofing, persistent detection logs with snapshots; reduced unauthorized access response time by ~80% vs. manual monitoring.

AI Smart Attendance Management System — *Django, DRF, React.js, OpenCV, PostgreSQL*

- Industrial-grade hybrid AI facial recognition attendance system with YuNet detection (<10ms/frame) and SFace 128-dim embeddings stored with AES-256 encryption — eliminating 100% of manual attendance marking across 300+ student records.

Application Verifier — AI Medical Device Compliance — *Python, FastAPI, ML, OCR, pdfplumber*

- Automated medical device registration (MDR) review for NHRA Bahrain; 94% document classification accuracy across 22+ document types, processing 50 documents in ~40 seconds; reduced manual review time by ~70%.

Image Forgery Detection — MS Thesis — *Python, CNN, ELA, OpenCV, TensorFlow*

- Deep learning pipeline combining Error Level Analysis (ELA) with CNN to detect digital image manipulation; architectural tuning reduced false-positive noise significantly.

EDUCATION

MS Computer Science Sep 2022 – Dec 2024

University of Agriculture Faisalabad, Pakistan GPA: 3.37 / 4.0 (EQF Level 7)

Thesis: Image Forgery Detection Reducing Fake Noise and Artifacts Using ELA and CNN

BS Computer Science Sep 2018 – Jun 2022

Government College University Faisalabad, Pakistan GPA: 3.41 / 4.0 (EQF Level 6)

Thesis: Smart Voice Home Controlled Automation (IoT + Voice Recognition)

CERTIFICATIONS & AWARDS

- IBM Artificial Intelligence Fundamentals — IBM (Nov 2025) · Machine Learning, Neural Networks, NLP, Computer Vision, AI Ethics · Credly Verified
- Machine Learning Using Python — Supervised & unsupervised learning, model evaluation, real-world ML pipeline development
- Introduction to Applied Data Science with Python — Data wrangling, visualization, statistical analysis
- Data Analysis with Python — EDA, Pandas, NumPy, data-driven insight generation
- Emerging Star Award — Jelly Tech Storm (Jan 2025) · Awarded for exceptional technical performance, innovation, and impact

LANGUAGES

Urdu — Native (C2) **English** — Professional Working Proficiency · IELTS 6.5 (B2)