

Bilal Ahmad

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Multan, Punjab, Pakistan

EDUCATION

Ghulam Ishaq Khan Institute (GIKI)

Bachelor of Science in Artificial Intelligence

Topi, Pakistan

2023 – Present

Beaconhouse School System (BSS)

O-Level and A-Level

Multan, Pakistan

2007 – 2023

PROFESSIONAL EXPERIENCE

Data Analyst

Zyp Startup

Sep 2025 – Dec 2025

Remote

- Conduct comprehensive data analysis and create visualizations for business intelligence
- Build dashboards and reports using Power BI for strategic decision-making
- Analyze user behavior patterns and provide actionable insights to product team
- Work with SQL databases and Python for data processing and analysis

FEATURED PROJECTS

basepy-sdk | *Python, Web3.py, Base L2, AsyncIO, Thread-Safe Design*

2025

- Developed production-ready Python SDK for Base blockchain extending beyond basic Web3.py wrappers
- Implemented enterprise features: circuit breaker patterns, rate limiting, caching, thread-safe operations
- Delivered 40% performance improvement over raw Web3.py through intelligent caching

AI-Powered WhatsApp E-commerce Chatbot | *FastAPI, Python, Supabase, PostgreSQL*

2025

- Built production FastAPI backend with AI-powered customer interactions and Supabase integration
- Successfully deployed to Railway with webhook configuration and environment management
- Designed for Pakistani SME market (90,000+ potential customers) as affordable solution

Purchasing Power Prediction | *Python, Scikit-Learn, XGBoost, MLflow, Docker*

2025

- Developed end-to-end MLOps pipeline for consumer purchasing power prediction using economic and demographic data, achieving 87% accuracy
- Implemented automated pipeline with preprocessing, feature engineering (15+ variables), training, and A/B testing
- Deployed production REST API with model versioning, monitoring, and automated retraining

Route Optimization & Infrastructure Analytics | *Python, Geospatial Libraries, Kepler*

2024

- Analyzed customer route patterns using geospatial data to identify transportation corridors
- Built interactive map visualizations for infrastructure investment decisions
- Delivered data-driven recommendations enabling strategic infrastructure expansion

TECHNICAL SKILLS & CERTIFICATIONS

Blockchain & Web3: Layer 2 Development, SDK Development, Smart Contract Interaction, Blockchain Infrastructure

Backend & Frontend: Python, FastAPI, Flask, Django, PostgreSQL, Supabase, Flutter, Kivy, HTML/CSS, React

Cloud & DevOps: AWS Cloud Architecture, Docker, CI/CD Pipelines

Data & AI: Power BI, Machine Learning (NLP), TensorFlow, Scikit-Learn, N8n

Languages: Python, SQL, C++, Dart, JavaScript/TypeScript

Certifications: AWS Cloud Solutions Architect (Sep 2025, ID: 768UWJQX07OK) ChatGPT Advanced Data Analysis (Aug 2025, ID: 1BFGRR6VI0FM)