SHEEZA NAZEER

Data Analytics | Data & Business Analytics | Generative AI

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Summary

Experienced Software Engineer and graduate student in Business Analytics with 5+ years of technical development experience and growing specialization in data analytics, visualization, business intelligence, and Generative AI. Skilled in SQL, Python, Power BI, Tableau, advanced Excel, OpenAI, Gemini, LangChain, RAG, vector databases, and AI workflow automation. Experienced in building dashboards, performing exploratory data analysis, developing AI-powered applications, and transforming complex datasets into actionable business insights. Combines strong analytical thinking, engineering rigor, and AI research experience to deliver scalable, intelligent, and data-driven solutions.

Skills

Technical:

- **Data & Business Analytics:** Power BI, Tableau, Advanced Excel (Pivot Tables, Power Query), SQL, Python
- **Data Analytics Capabilities:** Data Visualization, KPI Dashboards, Trend Analysis, Forecasting, Business Insights
- **Blockchain & Web3:** Solidity, Ethereum (Layer 0/1), Smart Contracts, dApps, DeFi, ICOs, Ordinals
- **Web Development:** JavaScript, React.js, Node.js, Express.js, REST APIs, GraphQL
- **Web3 Libraries & Frameworks:** Ethers.js, Web3.js, Truffle, Hardhat
- **Generative AI & LLMs:** OpenAI API, Gemini API, GPT Models, Gemini Flash, LangChain, LlamaIndex, Retrieval-Augmented Generation (RAG), Prompt Engineering, AI Agents, Function Calling, Tool Calling, AI Chatbots, Document Intelligence
- **Machine Learning & Statistical Tools:** Minitab, MATLAB, Google Colab, Jupyter Notebook, Scikit-learn, Pandas, NumPy, Statistical Analysis, Predictive Modeling, Regression Analysis, Hypothesis Testing
- **DevOps & Tools:** Docker, Git, GitHub, VS Code, Swagger, Postman
- **Architecture & Methodologies:** MVC Architecture, Agile / Scrum

Professional:
• Blockchain Trainer • Project management • Teamwork • Multitasking • Data-driven Decision Making
• Leadership

Education

The University of Scranton, PA, USA
MBA Business Analytics & Supply Chain Management
Aug 2025 – Present

University of Agriculture, Faisalabad
MS Computer Science — CGPA: 3.53
2019 – 2021

Government College University, Faisalabad
BS Computer Science — CGPA: 3.61
2015 – 2019

University of Agriculture, Faisalabad
Bachelor of Education (B.Ed.) — CGPA: 3.53
2020 – 2021

Experience

The University of Scranton, PA, USA
Graduate Research & Teaching Assistant | July 2025 – Present

- Assisted professors with lectures, graded assignments and exams, and provided academic support to students during office hours and tutorials.
- Analyzed research datasets using SQL, Power BI, and Excel to generate dashboards supporting business analytics and supply chain decision-making.
- Built interactive visualizations to identify operational trends and performance KPIs.
- Actively researching and developing AI-powered solutions using OpenAI, Gemini, LangChain, RAG, and automation workflows.
- Performed data cleaning, transformation, and exploratory analysis for academic research projects.

Koin Network, Remote
Blockchain Developer | May 2024 – June 2025

- Deployed multi-chain smart contracts and NFT marketplace infrastructure.
- Delivered secure, scalable Web3 solutions in cross-functional teams.

Quadplexs, Pakistan
Blockchain Engineer | February 2023 – May 2024

- Led blockchain architecture, research, and technical planning initiatives.
- Optimized smart contracts and mentored junior engineers.

InvoZone, Pakistan
Blockchain Engineer | July 2021 – January 2023

- Built and deployed dApps, NFT platforms, ICOs, and cross-chain solutions.
- Integrated Web3 systems with scalable backend and frontend architectures.

Research & Publications

SmartProof: Verifiable Pipeline for LLM Smart Contract Synthesis, Auditing, and Trust Scoring
TechRxiv (Powered by IEEE), 2025

- Proposed a verifiable pipeline combining LLM-based smart contract generation, automated auditing, and trust scoring.
- Addressed security and trust challenges in AI-generated smart contracts for decentralized applications.

V8COIN Protocol: A Decentralized Stablecoin Framework for Financial Inclusion
Technical Whitepaper, 2025

- Designed a Polygon-based ERC-20 stablecoin architecture with DAO governance and DeFi services.
- Defined tokenomics, lending, staking, and yield mechanisms targeting financial inclusion and scalability.

Principal Market Selection via Dynamic Weight Adapter
Research Work, 2025

- Designed a real-time market selection system using dynamic liquidity scoring based on spread, depth, volume, and volatility.
- Implemented Dynamic Weight Adapter (DWA) with online nonconvex optimization, LightGBM feature selection, CUDA-based solvers, and Bayesian changepoint detection for robust performance under market volatility.

Manuscripts Under Review

Crypto Fair Value Reliability Score (CFV-RS): An ASC 820-Compliant Method to Select Principal Markets and Pricing Sources for ASC 350-60 Reporting
Submitted to Financial Innovation (Springer, SSCI Indexed)

A Governance-Aware Blockchain-Based Healthcare Information System with AI Decision Support
Under Review

Data Science for Business: Applying Data Mining and Data-Analytic Thinking to Customer Segmentation, Sales Forecasting, and Profitability Analysis
Under Review

Blockchain Technology Adoption and AI-Driven Decision Support Systems: An Integrated Analysis of Transparency, Data Integrity, System Trust, Explainability, and Operational Performance
Under Review

Key Projects

RealTrust AI

Link

- Developed an AI-powered trust and verification platform for landlords, tenants, and real estate agents to verify identities, complete background screening, and improve transparency across rental transactions.
- Implemented AI-assisted document analysis, Persona-based ID verification, US address validation, protected user routes, public trust badges, verification status tracking, and admin review workflows.
- Designed secure role-based verification flows to help real estate stakeholders reduce fraud risk, validate user credibility, and build trust within the rental ecosystem.
  Technologies: Artificial Intelligence, AI Document Analysis, Machine Learning, Next.js, React.js, TypeScript, Clerk Authentication, Persona ID Verification, Real Estate Verification, Admin Review Workflow, Protected Routes, US Address Validation, Vercel

FSOC 2025 Financial Stability Dashboard

Link

- Designed an interactive analytics dashboard to monitor financial stability indicators and systemic risk metrics.
- Integrated public financial datasets and created KPI visualizations to support regulatory and policy analysis.

- Translated complex economic data into clear executive-level insights through dashboard storytelling.
  Technologies: Python, Data Visualization, Dashboard Development, Financial Risk Analysis, Business Intelligence, Regulatory Analytics

PropSmart

- Built an AI-powered property management platform designed to automate and optimize modern real estate operations for property managers, landlords, tenants, contractors, and internal admin teams.
- Developed AI-driven tenant onboarding and pre-screening workflows using Clerk authentication and Gemini Flash 2.5 APIs, generating tenant interest scores, suitability summaries, risk indicators, and manager-facing application insights.
- Implemented property listing, applicant management, lease assignment, maintenance ticketing, contractor routing, rent collection, expense tracking, ROI dashboards, cash flow forecasting, and portfolio reporting workflows.

  Technologies: Artificial Intelligence, Gemini Flash 2.5 API, Next.js, React.js, TypeScript, Clerk Authentication, Property Management, Tenant Screening, Maintenance Automation, Contractor Marketplace, Rent Management, Financial Reporting, Operational Analytics

Test Scores

Graduate Management Admission Council , USA	GMAT Focus	Score: 745	Sept, 2024

Languages

• English (Fluent) • Urdu (Native)

Certificate

• Best Employee Certificate
• Project Management Coursera