ASHRAF KHAN

Senior Technology Consultant & Multi-Domain Expert

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PROFESSIONAL SUMMARY

Multi-domain Technology Consultant with 7+ years of experience spanning AI/ML, Data Engineering, Quantitative Finance, AR/VR, and Game Development. Proven track record of delivering ₹100+ Cr value through cross-platform solutions, financial algorithms, and immersive experiences. **"The Singing CTO"** - recognized thought leader who bridges entertainment and technology. Expert in building scalable systems from startups to Fortune 500 companies.

Key Differentiators:

- Cross-domain expertise enabling unique problem-solving approaches
- Proven ability to translate complex technical concepts into business value
- Strong content creation and thought leadership background
- Experience across mobile, web, cloud, AI/ML, finance, and immersive technologies

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CORE COMPETENCIES

Programming & Development

Python • JavaScript • Dart • C# • Java • Swift • SQL • R • Solidity • MATLAB

AI/ML & Data Science

TensorFlow • PyTorch • Scikit-learn • Pandas • NumPy • MLflow • Apache Spark • Kafka • Airflow • Feature Engineering • Model Deployment • MLOps • Statistical Analysis • Time Series Forecasting

Mobile & Frontend

Flutter • React Native • React.js • Unity 3D • Android • iOS • Cross-platform Development

Backend & Cloud

Flask • Node.js • FastAPI • AWS • GCP • Azure • Docker • Kubernetes • Microservices • REST APIs • GraphQL • gRPC

Specialized Domains

Quantitative Finance • Algorithmic Trading • Risk Management • AR/VR Development • Blockchain/DeFi • Game Development • Bioinformatics • Computer Vision • NLP

Data & Analytics

PostgreSQL • MongoDB • Redis • Firebase • ETL Pipelines • Data Warehousing • Real-time Analytics • Business Intelligence • Tableau • Power BI

PROFESSIONAL EXPERIENCE

Senior Technology Consultant & Advisor

Independent Practice | Mumbai, India | *January 2029 - Present*

- **Revenue Generation**: Achieved ₹8.5 Cr annual consulting revenue through premium advisory services (₹75k-150k/hour rates)
- **Client Impact**: Delivered solutions worth ₹500+ Cr in client value across fintech, entertainment, and healthcare sectors
- **Thought Leadership**: 150k+ YouTube subscribers, keynote speaker at 25+ international conferences
- **Advisory Roles**: Board advisor for 3 AI startups (₹50L-1.5Cr equity positions each)

Key Achievements:

- Designed AI-powered trading system generating 285% ROI for hedge fund client
- Built VR training platform adopted by 50+ hospitals, reducing training costs by 60%
- Created cross-domain analytics framework saving pharmaceutical client ₹45 Cr annually

Principal Architect - Multi-Domain Solutions

Microsoft India | Hyderabad, India | *March 2027 - December 2028*

- **Technical Leadership**: Led 15-person cross-functional team building next-generation mixed reality platforms
- **Business Impact**: Delivered Azure AI services generating ₹25 Cr+ annual revenue
- **Innovation**: Filed 8 patents in AI-VR integration and financial ML systems
- **Mentorship**: Guided 50+ engineers across AI, gaming, and cloud development teams

Key Projects:

- Architected real-time fraud detection system processing 10M+ transactions daily

- Built mixed reality collaboration platform adopted by Fortune 100 clients

- Designed MLOps infrastructure supporting 500+ models in production

Senior Data Scientist & Quantitative Analyst

Two Sigma Investments | New York/Mumbai | *August 2025 - February 2027*

- **Algorithm Development**: Created proprietary trading algorithms generating $50M+ annual alpha

- **Risk Management**: Built real-time risk monitoring systems for $2B+ portfolio

- **Research**: Published 5 papers on ML applications in quantitative finance

- **Cross-team Impact**: Collaborated with 20+ researchers across multiple investment strategies

Technical Achievements:

- Developed ensemble ML models with 15% improvement in Sharpe ratio

- Implemented real-time data pipeline processing 100GB+ market data daily

- Created alternative data integration framework using satellite imagery and social sentiment

Lead AI/ML Engineer

NVIDIA India | Pune, India | *February 2024 - July 2025*

- **Product Development**: Led development of AI gaming SDK adopted by 200+ game studios

- **Performance Optimization**: Achieved 300% speedup in ML inference for edge devices

- **Research Collaboration**: Worked with Stanford AI Lab on federated learning research

- **Industry Relations**: Managed partnerships with Epic Games, Unity, and major gaming companies

Chief Technology Officer

SzoftQuantum | Mumbai, India | *June 2023 - January 2024*

- **Strategic Vision**: Defined multi-year technology roadmap spanning entertainment and fintech

- **Team Building**: Built engineering team from 2 to 15 members

- **Product Launch**: Delivered MVP generating ₹2.5 Cr initial revenue

- **Investor Relations**: Secured ₹15 Cr Series A funding round

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DOMAIN EXPERTISE & NOTABLE PROJECTS

AI/ML & Data Engineering

Intelligent Document Processing Platform *(2028)*

- Built end-to-end NLP system processing 1M+ documents monthly
- Achieved 94% accuracy in multi-language document classification
- Deployed on AWS with auto-scaling capabilities handling 10x traffic spikes
- **Impact**: Reduced client processing costs by ₹12 Cr annually

Real-time Recommendation Engine *(2027)*

- Designed collaborative filtering system serving 50M+ users
- Implemented A/B testing framework improving engagement by 35%
- Built feature store supporting 200+ ML features with sub-100ms latency

Quantitative Finance

Multi-Asset Trading Platform *(2026)*

- Developed algorithmic trading system for equities, options, and crypto
- Implemented risk management with real-time portfolio optimization
- Created backtesting framework with 5-year historical validation
- **Performance**: Generated 28% annual returns vs 12% benchmark

DeFi Yield Optimization Protocol *(2025)*

- Built smart contract system managing $25M+ in TVL
- Implemented automated yield farming across 15+ protocols
- Created governance token with quadratic voting mechanism

AR/VR & Game Development

Enterprise VR Training Suite *(2028)*

- Developed immersive training platform for manufacturing and healthcare
- Integrated hand tracking, eye tracking, and spatial audio
- Built analytics dashboard tracking learning effectiveness
- **Adoption**: 50+ enterprise clients, 10k+ active users

Cross-platform AR Shopping Experience *(2027)*

- Created AR try-on solution for fashion and furniture retail

- Integrated with major e-commerce platforms via SDK
- Implemented cloud-based 3D model generation pipeline

Biotech & Healthcare IT

Genomics Analysis Pipeline *(2027)*

- Built distributed computing system for whole-genome sequencing
- Processed 10TB+ genomic data with 99.9% accuracy
- Integrated with major biobanks and clinical databases
- **Impact**: Accelerated drug discovery timelines by 40%

THOUGHT LEADERSHIP & CONTENT

"The Singing CTO" Content Empire

- **YouTube**: 150k+ subscribers, 5M+ views across technical education content
- **Speaking**: Keynote speaker at TechCrunch Disrupt, AWS re:Invent, Google I/O, Microsoft Build
- **Publications**: 25+ technical articles in IEEE, Nature Digital Medicine, Journal of Financial Data Science
- **Podcasts**: Regular guest on "The AI Podcast," "Fintech Insider," "Future of Work"

Notable Presentations

- "AI in Entertainment: Beyond Gaming" - SIGGRAPH 2028 (5k+ attendees)
- "The Future of Quantitative Finance" - QuantCon 2027 (keynote)
- "Cross-Domain Innovation in Technology" - TEDx Mumbai 2026

EDUCATION & CERTIFICATIONS

Education

Master of Science in Artificial Intelligence & Machine Learning

Stanford University | Stanford, CA | *2023-2024* (Executive Program)

Bachelor of Science in Computer Science

Rizvi Education Society's College | Mumbai, India | *2017-2020*

Professional Certifications

- **AWS Certified Solutions Architect - Professional** (2025)

- **Google Cloud Professional ML Engineer** (2024)
- **CFA Institute Investment Foundations** (2026)
- **Certified Kubernetes Administrator (CKA)** (2025)
- **Unity Certified Expert - Programmer** (2027)

AWARDS & RECOGNITION

- **"Emerging Tech Leader of the Year"** - Economic Times 2028
- **"Top 40 Under 40 in AI"** - Analytics India Magazine 2027
- **"Innovation Excellence Award"** - NASSCOM 2026
- **"Outstanding Contribution to Open Source"** - GitHub 2025
- **"Query Master Award"** - Early Career Achievement

LANGUAGES & SOFT SKILLS

Languages: English (Professional), Hindi (Native), Marathi (Conversational)

Leadership: Cross-functional team management, Strategic planning, Stakeholder communication
Communication: Technical writing, Public speaking, Content creation, Client presentations
Innovation: Design thinking, Rapid prototyping, Cross-domain problem solving

PORTFOLIO HIGHLIGHTS

🌐 **Live Demos**: portfolio.ashrafkhan.dev
📊 **GitHub**: 200+ repositories, 5k+ stars, 50+ contributions to major open-source projects
🎵 **Music**: "Tech Songs" album explaining AI concepts through music (1M+ streams)
🎬 **Acting**: Featured in tech industry documentary "The Future Builders" (Netflix)

ENTERTAINMENT INDUSTRY SERVICES

Acting & Performance Services

Premium rates for authentic tech industry roles:

Film & Series Acting:

- **Lead Tech Character Roles**: ₹25-75L per project
- **Supporting Tech Expert Roles**: ₹8-25L per project

- **Documentary/Educational Content**: ₹5-15L per project

- **Bold/Challenging Scenes**: ₹3-8L premium (when script demands authenticity)

- **Action/Technical Sequences**: ₹2-5L premium (leveraging real tech knowledge)

Commercial & Brand Endorsements:

- **Tech Company Brand Ambassador**: ₹15-50L per campaign

- **Product Launch Presentations**: ₹5-15L per event

- **Corporate Training Videos**: ₹3-8L per production

- **Fintech/AI Company Commercials**: ₹8-25L per campaign

Live Performance & Events:

- **Concert Performances**: ₹5-20L per show (tech-themed music)

- **Corporate Entertainment**: ₹3-10L per event

- **Conference Musical Presentations**: ₹2-8L per keynote

- **Private Events/Parties**: ₹1-5L per performance

Content Creation & Media

"The Singing CTO" Entertainment Brand:

- **Netflix/Prime Original Series**: ₹50L-2Cr per season (tech industry drama)

- **YouTube Sponsored Content**: ₹2-10L per video

- **Podcast Sponsorships**: ₹50k-3L per episode

- **Music Streaming Revenue**: ₹25L-1Cr annually (educational tech songs)

- **Book/Biography Rights**: ₹1-5Cr advance

Unique Value Proposition for Casting Directors:

- **Authentic Tech Expertise**: No acting required for technical scenes - real knowledge

- **Multi-Language Capability**: English, Hindi, Marathi for diverse market appeal

- **Cross-Industry Appeal**: Perfect for fintech, startup, Silicon Valley-themed content

- **Musical Integration**: Can perform original tech-themed songs within productions

- **Global Recognition**: International tech conference speaker brings credibility

CONSULTATION EXPERTISE

Available for premium consulting in:

- AI/ML strategy and implementation (₹100k-200k/hour)

- Cross-domain technology architecture (₹75k-150k/hour)

- Digital transformation for entertainment and finance (₹50k-100k/hour)

- Strategic technology advisory for C-suite executives (₹150k-250k/hour)

Notable Clients: Microsoft, Google, Goldman Sachs, Netflix, Roblox, Pfizer

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TOTAL REVENUE STREAMS

Annual Revenue Potential (Year 7+):

- **Premium Tech Consulting**: ₹3-15 Cr

- **Entertainment Projects**: ₹2-8 Cr

- **Speaking & Events**: ₹1-3 Cr

- **Content & Sponsorships**: ₹1-4 Cr

- **Board Positions & Equity**: ₹1-5 Cr

- **Music & Media Rights**: ₹50L-2 Cr

Total Annual Potential: ₹8.5-37 Cr+