

AMIN PARVA

AI/ML and Software Lead

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PROFESSIONAL SUMMARY

Technical leader with 15+ years of experience in AI/ML, data science, and full-stack development. Currently leading athlete performance analytics at Athlete Management Technologies, implementing ML pipelines using **PyTorch, TensorFlow, and TensorFlow Lite** for real-time sensor data processing. Expert in **AI agent integration with Cursor IDE**, Flask APIs, mobile app development, and modern DevOps practices including GitHub Actions, Docker, and AWS deployment. Proven track record of leading technical teams and delivering enterprise-scale solutions.

TECHNICAL SKILLS

AI/ML & Data Science	PyTorch, TensorFlow, TensorFlow Lite, Scikit-learn, Pandas, NumPy, Supervised/Unsupervised Learning, Pattern Recognition, Model Training
Programming & Development	Python, C#, JavaScript, TypeScript, Flask APIs, React, Next.js, Angular.js, Django, Flutter, Mobile App Development
Cloud & DevOps	AWS (SageMaker, App Runner, ECR), Docker, GitHub Actions, CI/CD Pipelines, Containerization, Model Deployment
Sensors & IoT	Accelerometer, Gyroscope, Motion Detection, Sensor Data Processing, Real-time Data Collection, Time Series Analysis
Management & Leadership	Technical Team Leadership, Cross-functional Team Management, Agile/Scrum Master, Strategic Planning, Technical Mentoring, AI Agent Integration

PROFESSIONAL EXPERIENCE

AI/ML and Software Lead / Athlete Management Technologies / Feb 2025 - Present

Leading athlete performance analytics using PyTorch, TensorFlow, and TensorFlow Lite for real-time sensor data processing. Expert in AI agent integration with Cursor IDE, Flask APIs, mobile app development (FirePod ecosystem), and modern DevOps practices including GitHub Actions, Docker, and AWS deployment.

Senior Technical Lead & Engineering Executive / Antech Diagnostics (Mars Inc.) / Oct 2015 - Nov 2024

Led digital transformation across 15+ enterprise projects serving 5,000+ healthcare clients, generating \$50M+ revenue impact. Established Center of Excellence for AI/ML adoption, mentoring 25+ technical leaders. Reduced operational costs by 30% while improving system performance by 200%.

Technical Lead & Engineering Manager / Technijian / Jan 2015 - Oct 2015

Led 2 enterprise-scale projects worth \$5M+ in client value. Architected n-tier software platform serving 10,000+ users, improving efficiency by 150%.

Lead & Co-Founder / ParvaGroup / July 2008 - Nov 2014

Co-founded and scaled startup from concept to market leader, growing team from 2 to 12 professionals and achieving \$2M+ annual revenue. Delivered 75+ enterprise web applications.

EDUCATION & CERTIFICATIONS

Bachelor of Science in Electrical Engineering | Azad University, Bushehr, Iran | 2003-2008

Certifications: Scrum Master, Leadership Fundamentals, Management in Organization, Advanced C# | LinkedIn Learning 2024