YOONUS KIZHAKKETHIL

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English, Arabic – *All professional proficiency or above*

PROFILE

AI Engineer specializing in building and deploying predictive trading systems that deliver measurable returns. Experienced in developing full-stack AI solutions, from data pipelines and RL models to scalable MLOps workflows. Proven ability to apply machine learning to optimize business operations, achieving a 30% efficiency boost in inventory management.

EXPERIENCE

AI/ML Engineer (Project Lead)   Remote (Single-Client Engagement)   *Jeddah, Saudi Arabia*   **02/2025 - Present**

- **Led** end-to-end dev of a proprietary AI stock prediction system, managing a cross-functional team of 3 from the start to end.
- **Architected** a full-stack trading system integrating NLP for sentiment analysis and a PPO reinforcement learning agent, resulting in an 80% increase in risk-adjusted returns during backtesting.
- **Engineered** automated data pipelines to process daily market data, reducing feature engineering time by 40%.
- **Deployed** a scalable multi-interface application using Docker and CI/CD, establishing model versioning and API endpoints.
- **Implemented** a risk management framework (Sharpe Ratio, Max Drawdown) critical for model selection, saving 25% in potential losses.
- **Established** model versioning workflows with API endpoints for reproducibility and scalable deployment.
- **Authored** comprehensive documentation that slashed client onboarding time by 50%, ensuring seamless knowledge transfer.

IT Manager   Starbucks (Arabian Gates)   *Jeddah, Saudi Arabia*   **01/2024 - Present**

- **Driving** digital transformation and AI integration for 20+ branches, managing a $100K project portfolio and a 50+ person team.
- **Engineered** an AI-powered inventory forecasting model that automated supply chain workflows, boosting operational efficiency by 30% and saving 15+ manual hours per branch weekly.
- **Deployed** a data-driven product categorization model that streamlined POS operations, cutting average customer checkout time by 20%.
- **Automated** financial and data analytics by integrating predictive analytics with ERP systems, improving reporting accuracy by 25%.
- **Reduced** external IT dependency by 80% by developing and leading internal training programs on AI-enabled tools.

Full Stack Engineering Intern   Sahl Solutions   *Jeddah, Saudi Arabia*   **06/2024 - 08/2024**

- **Engineered** and integrated RESTful APIs using Django and React, enabling 3+ scalable features for the application and ERP ecosystem.
- **Designed** optimized database schemas to support complex data, ensuring readiness for analytics and machine learning workloads.
- **Enhanced** performance by optimizing database queries and React component structures, reducing average page load time by 15%.
- **Contributed** to an Agile team through 4 major sprints, facilitating cross-functional collaboration between local and offshore developers.

Assistant Manager (Data & Reporting)   Al-Atayeb   *Jeddah, Saudi Arabia*   **01/2018 - 01/2019**

- **Supported** store operations and staff coordination, contributing to effective scheduling and payroll accuracy.
- **Organized** financial datasets and applied Excel-based analytics to improve reporting efficiency and accuracy.
- **Streamlined** attendance tracking systems, reducing payroll errors and ensuring data consistency.

SKILLS

- **AI & Machine Learning:** Supervised & Unsupervised Learning | RL (PPO, SB3) | Predictive Modeling | Sentiment Analysis | Feature Eng
- **Deep Learning & NLP:** Neural Networks | TensorFlow | PyTorch | NLP | Transformers | Text Mining | Embeddings
- **MLOps & Deployment:** CI/CD | Model Versioning | Experiment Tracking | API Integration | Docker | Cloud (AWS, Firebase) | Lambda
- **Programming & Frameworks:** Python | Django | Node.js | Java | C++ | C# | React | Next.js
- **Databases & Data Engineering:** SQL | PostgreSQL | MongoDB | Oracle | SQLite | Schema Design | Data Pipelines
- **Soft Skills:** Problem-Solving | Critical Thinking | Research | Stakeholder Communication | Team Collaboration | Leadership

EDUCATION & CERTIFICATIONS

Bachelor of Computer Science   King Abdulaziz University   *Jeddah, Saudi Arabia*   **08/2020 - 08/2025**

- Major in Artificial Intelligence (AI) & Software Engineering. GPA: 4.95/5

Project Management Professional (PMP)   Project Management Institute   *Pennsylvania, USA*   **09/2025**

- Globally recognized certification in project management, focusing on planning, execution, and leadership.