Kathan Parag Shah

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OBJECTIVE

Aspiring Data Scientist pursuing a B.S. in Computer Science and Economics (GPA 3.81) with hands-on experience in statistical modeling, machine learning and data visualization. Proficient in Python (Pandas, scikit-learn), R (tidyverse, ggplot2), SQL and modern BI tools. Seeking to apply predictive modeling expertise, including ARIMA and LSTM forecasting as well as interactive dashboard development, to deliver data driven insights and support strategic decision making within an innovative analytics team.

PROFESSIONAL EXPERIENCE

Global Launch, Arizona State University Jul 2025 - Present
Tempe, AZ *ULC Grader, Finance & Economics Teaching Fellow*

- Provided detailed feedback on more than 100 undergraduate finance and economics assignments each semester, ensuring grading consistency and helping students understand core concepts through written comments and one-on-one follow-up discussions.
- Analyzed grade distributions and participation data to identify at-risk students, then coordinated targeted tutoring sessions and progress check-ins that reduced course withdrawal rates by 20 percent and improved overall class retention.

Global Launch, Arizona State University Jun 2025 - Present
Tempe, AZ *Business Operation Specialist*

- Performed salary data modulations by extracting payroll data, identifying anomalies and updating the HRIS system to ensure accurate compensation for employees across multiple departments.
- Managed the corporate card program including issuing PCards, reconciling monthly statements, verifying receipts and coding expenses to appropriate budget lines, ensuring compliance with finance policies and audit requirements.

W.P. Carey School of Business, Arizona State University Nov 2023 - Jan 2025
Tempe, AZ *Information Technology Support Specialist*

- Optimized ticket triage and standardized IT workflows using Django and Git to streamline support processes for faster resolutions and uptime improvements across critical enterprise systems, achieving a 35% reduction in average downtime.
- Streamlined troubleshooting protocols and deployed diagnostics scripts to reduce system downtime by 25% while meeting 1-hour first-response SLAs across all infrastructure components, improving reliability metrics.

Sun Devil Athletics, Arizona State University Oct 2023 - Nov 2024
Tempe, AZ *Technology Assistant*

- Managed the setup, maintenance, and troubleshooting of over 150 IT systems, ensuring 98% operational availability and resolving 95% of technical issues within 24 hours to minimize disruptions and support uninterrupted athletic operations.
- Conducted and delivered staff training programs on IT best practices and system workflows, boosting technical proficiency and operational efficiency by 30% across staff teams to enhance support capabilities, reduce incidents, and ensure knowledge.

EDUCATION

Bachelor of Science in Computer Science and Economics, Arizona State University May 2026
Major GPA: 3.81/4.0 (Dean's List)

PROJECTS

Wheel Strategy Options Mar 2025 - May 2025

- Engineered a Next.js/TypeScript app ingesting 570K+ option records each hour, computing covered-call yields, probabilities, and breakevens in under 500ms per query for 1,200 monthly users.
- Implemented an intuitive React front-end with interactive tables and charts, paired with a Node.js/Express backend handling data processing and caching to ensure sub-second response times under heavy query loads.

Sea Level Predictor Apr 2025 - May 2025

- Developed ARIMA and LSTM models on 50-year NOAA datasets, achieving a 92% backtest accuracy and delivering daily projections to 300+ users via a Streamlit interface.
- Packaged results into a Streamlit app with interactive charts, enabling users to explore projections and confidence intervals.

Medical Data Visualization Apr 2025 - May 2025

- Spearheaded an interactive healthcare analytics tool in R Shiny to explore patient outcomes across demographics and treatment plans.
- Employed ggplot2 and plotly for customizable visualizations, aiding clinicians in rapid identification of at-risk populations.

SKILLS

Technical: Python (NumPy, Pandas, Seaborn, NetworkX, scikit-learn), R (tidyr, dplyr, ggplot2), SQL, Power BI, Stata, QGIS, Git/GitHub, JavaScript (React, TypeScript, Next.js, Gatsby), Web development (HTML5, CSS3, Tailwind CSS, Bootstrap), APIs (REST APIs, GraphQL), Cloud computing (AWS EC2, S3, Lambda, Google Cloud Platform), Containerization and orchestration (Docker, Kubernetes)
Methods: Principles of Programming, Object-Oriented Programming & Data Structures, Data Structures & Algorithms, Discrete Mathematical Structures, Probability & Statistics for Engineering, Principles of Programming Languages, Agent-Based Modeling, Scenario Analysis, Statistical Risk Assessment, K-Nearest Neighbors, Support Vector Machines, Econometric Modeling