

## Gaurav Sharma

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### To Whom It May Concern,

I am writing this letter in support of Mr. Joshi's application for the EB2-NIW (National Interest Waiver) category. I have had the privilege of working with Mr. Joshi during his tenure as an **Analytics Manager** at **AXA XL** from **July 20, 2014, to August 5, 2015**, where he consistently demonstrated exceptional expertise and innovation in analytics, model validation, and risk management.

During his time at AXA XL, Mr. Joshi spearheaded several initiatives that had a significant impact on the organization's operations and risk management processes. His role required advanced skills in **model development and validation** for various asset classes, including Interest Rates and Equities, managing a \$40 million portfolio. Notably, he identified and corrected 2–3 critical model configuration errors in Monte Carlo simulation models during monthly evaluations, ensuring enhanced accuracy and reliability in financial projections.

Mr. Joshi's ability to integrate diverse technologies such as **R, Python, SQL, MATLAB, VBA, and GEMS ADVISE** demonstrates his versatility and technical acumen. His work directly enhanced the validation of stochastic models and Value-at-Risk (VaR) measures for Alternative Investments, Fixed Income, and Equities, ensuring that the organization adhered to the highest standards of accuracy and regulatory compliance.

### Expanding the Knowledge Base Beyond Formal Responsibilities

Mr. Joshi consistently extended his impact far beyond his designated role at AXA XL by voluntarily developing open-source validation tools in Python (uploaded on Git) that were later adopted by three other business units. His 2015 research publications were conducted independently and has since been cited in multiple working papers, demonstrating how his personal scholarship contributes to the broader financial regulatory knowledge base. Notably, he maintained a public GitHub repository where he shared innovative approaches to stochastic modeling, accumulating over 500 professional followers - evidence of his commitment to advancing the field through open collaboration.

### Proven Capacity for Future Implementation (2025-2030)

The same traits that enabled Mr. Joshi to successfully implement risk model improvements at AXA XL - his technical ingenuity, systematic approach, and ability to translate research into practice - position him exceptionally well to execute his proposed five-year AI research agenda.

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His planned open-access publications on generative AI for financial stability will build upon his established track record of peer-reviewed work (12 papers since 2015). The operational frameworks he created at AXA XL, which remain in use today, serve as a blueprint for how he will transform his forthcoming research into practical tools for U.S. financial institutions. I have no doubt his future open-source releases and public training initiatives will replicate and expand upon the widespread professional adoption his previous shared resources achieved.

### **Final Words**

Beyond his technical contributions, Mr. Joshi's work has broader implications for the financial industry and the U.S. economy. By advancing methodologies in risk modeling and automation, he has addressed critical challenges in financial analysis, ensuring better decision-making and more robust economic systems. His efforts align with the national interest by contributing to the stability and innovation of financial systems that underpin economic growth.

I wholeheartedly endorse Mr. Joshi for the EB2-NIW category. His unique blend of technical expertise, innovative problem-solving, and commitment to excellence makes him a valuable asset to his field and the United States. Please feel free to contact me at +91 98710 00722 if you require further information

Sincerely,

*Gaurav*

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