

AKSHAY KUMAR

Washington, DC • (202) 415-4366 • ak8335a@american.edu • [linkedin.com/in/akshaykumardl](https://www.linkedin.com/in/akshaykumardl) • github.com/akbknight • akbknight.github.io

PROFESSIONAL SUMMARY

Seasoned IT professional with 7+ years of software engineering experience in data integration and operational analytics to deliver measurable business results. Built decision-support systems for the U.S. Embassy in India along with banking-data products serving Capital One, by de-bottlenecking business processes to deliver automation capability in changing business dynamics.

EDUCATION

American University, Kogod School of Business — *Master of Business Administration (STEM MBA)* Washington, DC | May 2027
Maharishi Dayanand University — *Bachelor of Technology, Computer Science & Engineering* Rohtak, India | Aug 2021

PROFESSIONAL EXPERIENCE

U.S. Embassy, India — *Business Analyst* New Delhi, India | Nov 2022 – Sep 2025

- Spearheaded a **30% increase in daily visa-request throughput** by building a demand-modeling dashboard that exposed seasonal patterns by visa category and guided consular staffing decisions; **received formal commendation from U.S. Ambassador**.
- Replaced manual consular complaint logging with a custom Power Apps, Power Automate, and SharePoint solution, **reducing average case triage time by 65%** and accelerating resolution turnaround from 5 days to under 48 hours.
- Configured and deployed enterprise consular vetting software across all U.S. posts in India, **cutting case review cycle times by 24%** and reducing the visa vetting backlog by 37% within the first quarter of deployment.
- Built a centralized Power Apps asset portal enabling automated device requests, upgrade tracking, and decommissioning, boosting hardware inventory accuracy to **99.4%** and eliminating untracked legacy laptops.

AIS Info — *Software Engineer (Capital One Delivery)* Gurugram, India | Nov 2021 – Nov 2022

- Architected scalable Java ETL pipelines processing **12M fragmented court records** across 94 federal districts, delivering verified bankruptcy datasets to **Capital One** with 99.6% classification accuracy.
- Engineered a commercial death-record database indexing **85M U.S. vital records**, enabling institutional bank clients to screen **\$350M in loan originations** and prevent synthetic identity fraud.

MS Star Computers Pvt. Ltd. — *Software Application Developer* New Delhi, India | Jul 2018 – Nov 2021

- Directed end-to-end IT procurement and deployment for 8 regional centers, advising business units on hardware specifications, negotiating vendor orders, and installing **350 workstations with a 99.7% first-time compatibility rate**.
- Centralized online learning infrastructure for three K–12 schools during COVID-19 via a custom Flutter app, achieving **98% daily active student adoption** and supporting 2,000 daily session joins with zero service disruptions.

FLAGSHIP PROJECTS

U.S. Retail Sales Forecast Engine — [Live Engine ↗](#) Python · Holt-Winters · FRED API · Chart.js

- Developed retail sales forecasting models in Python using Holt-Winters exponential smoothing on 10+ years of FRED macroeconomic data, achieving a **3.4% MAPE** across a 12-month holdout set evaluated via MAE and RMSE.

IRS 990 Philanthropic Grant Miner & 3D Spatial Engine — [Live Engine ↗](#) Python · WebGL Globe · D3 TopoJSON · DuckDB

- Engineered an end-to-end Python/ETL pipeline parsing **9.7M IRS Form 990 XML records** (2019 to 2024), standardizing **\$550B in charitable funding** with zero API dependencies, sub-second query latency, and 100% data lineage integrity.

TECHNICAL SKILLS & COMPETENCIES

Programming & Data: Python, SQL, Java, R, C/C++, MySQL, REST APIs, DuckDB, Pandas, NumPy

Analytics & Modeling: Power BI, Excel, Streamlit, statsmodels, Time-Series Forecasting, Forecast Evaluation (MAE, RMSE, MAPE)

Applications & Cloud: Flutter, Power Apps, Power Automate, SharePoint, AWS S3, Three.js / WebGL, Git / GitHub CI/CD