

KUMAR SAURAV JHA

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SUMMARY

Data Science professional with 4 years delivering production ML and analytics for Fortune 500s (Shell, Nationwide, Cargill). Shipped Python/SQL pipelines, ML models, and decision dashboards that cut cycle time and lift engagement. Recent work: World Bank transport cost modeling and GAN-based knowledge-distillation research at GWU. Known for turning messy processes into measurable, A/B-tested wins.

EDUCATION

MS, Data Science, The George Washington University Aug 2023 – May 2025
Relevant Coursework: Data Visualization, Machine Learning, Computer Vision, NLP, Cloud Computing

BS, Electronics and Telecommunication, University of Pune Aug 2015 – May 2019

CERTIFICATIONS

AWS Certified Cloud Practitioner
IBM Machine Learning Specialization

SKILLS

Programming: Python, R, SQL, Cypher
Machine Learning & AI: Supervised & Unsupervised Learning, NLP, Computer Vision (OpenCV, PyTorch, TensorFlow), Deep Learning, Generative AI, Knowledge Distillation
Visualization & BI: Tableau, Power BI, Dash, Plotly, Matplotlib, Seaborn, Excel
Cloud & MLOps: AWS (S3, Lambda, SageMaker), Docker, Kubernetes

EXPERIENCE

World Bank | Data Fellowship Jan 2025 – May 2025

- Designed an ML-driven transport mode-choice model using UNCTAD/World Bank data (9.5M+ records) to recommend cost-optimal modes for food and mineral shipments in Sub-Saharan Africa, paired with an interactive React world map, dashboards, and a policy report to support shifting freight from costly road transport to more efficient railways.

- Partnered with WB economists to define decision-ready metrics and scenario analyses for corridor upgrades and mineral logistics; contributed to the calibration of a transport mode-choice framework.

George Washington University | Research & Teaching Assistantship Aug 2024 – May 2025

- Worked on a GAN-powered knowledge-distillation pipeline that lets low-power edge devices detect small objects in real time to slash inference latency from 200 ms to 40 ms on a Jetson Nano (ongoing research).
- Served as a TA for Data Visualization and Data Warehousing for 40+ students, covering SQL/NoSQL databases and advanced visualization topics.

Deloitte LLP | Data Science Consultant Oct 2022 – Jul 2023

Shell Global Solutions

- Piloted anomaly-detection models on 5 years of Shell pipeline data; spotted unusual sensor patterns before breakdowns and showed in backtests that downtime could drop by ~ 25%, saving about \$1.2M annually.
- Worked on-site at Shell Global Solutions with engineers and business leads to map the process, gather requirements, and turn them into a clear analytics plan (data sources, KPIs, handoffs) that kept scope tight and sped up delivery.

Accenture Solutions Pvt Ltd | Data Science Analyst Sep 2019 – Oct 2022

Nationwide Mutual Insurance

- Drove ~20% higher customer engagement by building a Python (XGBoost) classification model that scored ~3M payment events/day to predict abandonment and triggered personalized SMS/email nudges via DMX.
- Built a next-best-product recommender that suggested one relevant add-on at policy renewal using OIPA history, lightweight ML/KNN ranking, and CMS/DMX integration; achieved higher attachment rates while reducing generic outreach.

- Eliminated ~2 hrs/day of manual checks and gave leaders instant visibility into data quality by delivering a real-time KPI validation engine, orchestrated through SQL pipelines feeding Power BI dashboards with automated alerts.
- Built a lightweight recommendation service that prefilled shipping point and fixed asset defaults from historical patterns (frequency backoff + KNN for cold cases), increasing straight-through processing and reducing manual overrides.
- Turned open-ended business questions into sprint-ready analytics work by leading discovery sessions with finance and marketing stakeholders, framing hypotheses, writing acceptance criteria, and prioritizing goals to keep projects on track.
- Presented project progress reports with actionable items every sprint to cross-functional team of non-technical executives, marketers, and engineers.

PROJECTS

Emotional Support Chatbot | Build Fellowship Program Nov – Dec 2024

- Engineered a context-aware conversational chatbot for emotional support by fine-tuning Google’s T5-small on the ESConv dataset. Leveraged dialogue strategy mapping and nuanced user input to generate highly contextual text, achieving perplexity score of 15.15.

Highlight Reel: Automated Sports Content Generation | Independent Oct – Nov 2024

- Developed an automated pipeline for Volleyball highlight reel generation using OpenCV, integrating metadata-based game liveness filtering and custom motion analysis (speed & acceleration), achieving 90% recall with Logistic Regression.

NBA Box Scorers 1997–2023 | Academic Mar – Apr 2024

- Built an interactive NBA statistics dashboard using Dash and Plotly, enabling player and team performance analysis with trend visualization, downloadable reports, data caching, and feedback submission for efficient processing of 25+ years of game data.

CO-CURRICULARS & ACHIEVEMENTS

Student Academic Assistant II, Data Science Department, GWU Jan 2025 – May 2025

- Supported faculty in Computer Vision and Data Warehousing courses by preparing lecture slides, quizzes, and project options; held office hours and streamlined grading/feedback for 50+ graduate students.

Build Fellowship Certificates, Open Avenues Foundation Jul 2024 – Apr 2025

- Completed 4 industry-aligned projects under the Build Fellowship program: *NLP Unleashed: Building Smart Chatbots*, *Highlight Reel: Automated Sports Content Generation*, *Painting with Pixels: Generative Art Portfolio*, and *Semantic Analysis of Social Media*.

Events & Initiatives Chairperson, Data Science Association, GWU Aug 2023 – May 2024

- Organized a city-wide Datathon with strong student participation across DC; led workshops and alumni outreach initiatives as Cabinet chairperson of the Data Science Association.

Global Leaders Award (tuition scholarship), GWU Aug 2023 – May 2025

- Selected for merit-based award recognizing academic excellence and leadership potential.

The Rising Star Award, Accenture Jul 2022

- Recognized by client leadership (Cargill Inc.) for exceptional work.