

Kumar Saurav Jha

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EDUCATION

The George Washington University

Master of Science, Data Science

Graduate Teaching Assistant for *Visualization of Complex Data*

Washington, DC

(expected May 2025)

University of Pune

Bachelor of Engineering, Electronics and Telecommunication

India

(May 2019)

PROFESSIONAL EXPERIENCE

1. Consultant, Deloitte India LLP

Oct 2022 - July 2023

- Designed predictive ML models (**classification and anomaly detection**) for *Shell Global Solutions Inc.*, to flag pipeline anomalies and optimize maintenance—significantly **reducing downtime** and **repair costs**.
- Leveraged **NLP and Computer Vision** techniques to analyze large volumes of **equipment failure reports** and technician notes, extracting critical insights and **automating root-cause analysis**.

2. Data Analyst, Accenture Solutions Pvt Ltd

Sep 2019 - Oct 2022

- Designed and accomplished an **automated data validation process** using **Power BI** for Cargill Inc., **eliminating the 2-hour daily manual effort** by directly integrating SQL scripts into the dashboard and enabling **real-time tracking** of system replication metrics.
- Automated SAP S/4HANA tasks like **Shipping Point Creation**, and **Fixed Asset Management**, using SQL scripts for *Cargill Inc*, **reducing manual efforts by 35%** and cutting **processing time by 50%**.
- Designed a **payment inquiry gateway** for *Nationwide Mutual Insurance*, integrating automated text and email alerts, leading to a **20% increase in customer engagement and satisfaction**.
- Worked closely with business stakeholders** to define **data requirements**, improving the **accuracy of KPIs** and providing **actionable insights** for the operations team.

EXTERNSHIP

Build Student Consultant, The Build Fellowship by Open Avenues

1. Painting with Pixels: Crafting a Portfolio of Generative Art Experiences

July 2024 - Aug 2024

2. Semantic Analysis of Social Media

Apr 2024 - Jun 2024

(For more details refer to "Build Project: A Generative Art Gallery" & "Sentiment Analysis on Indian Elections 2024" on LinkedIn)

PROJECTS

1. **Highlight Reel: Automated Sports Content Generation** | Python - Independent

Nov 2024

- Volleyball highlight reel generation using **OpenCV** with transition effects, metadata-based game **liveness filtering**, and custom features like speed & acceleration; Achieved **90% recall** with Logistic Regression;
- Improved transition stability using sliding window majority voting and minimum duration enforcement for **smoother, visually appealing highlights**.

2. **Author Profiling on Blogpost Corpus** | Python - Academic

Dec 2024

- Implemented age-group prediction using **blog text**, **author gender**, and **occupation**, conducting a comparative analysis of **static** (GloVe 200) vs. **contextual embeddings** (DistilBERT), followed by training a Fully Connected NN; created balanced target variables, and modular **PyTorch** implementation (GPU CUDA).

3. **Strategic Customer Segmentation and Demand Prediction** | Python - Academic

Nov 2023

- Segmented customers** based on their spending behavior via **KMeans clustering**.
- For daily and weekly **demand prediction**, the **XGBoost** model was used; it provided a practical framework for **effective inventory management**, proactive adaptation to market changes, and **targeted marketing**.

TECHNICAL SKILLS

Languages: Python, R, SQL, CQL (Cypher Query Language), HTML, CSS

Databases: MySQL, MongoDB, and Neo4j

Tools: Excel, Tableau, Power BI(PowerQuery, DAX), PyTorch

Product Development: Agile Methodology, HP ALM, MVP model, Git, and Flask

Certification: IBM Machine Learning Specialization, AWS Certified Developer - Associate