Rashi Chauhan

Data Science and AI/ML Engineer · Technical Consultant, Hewlett Packard Enterprise

Delhi, India | rashichauhan67@gmail.com

linkedin.com/in/rashi-chauhan-67rc | github.com/RashiChauhan67 | Google Scholar | rashichauhan67.github.io/Portfolio

PROFESSIONAL SUMMARY

Data Science professional at Hewlett Packard Enterprise with experience in predictive modelling, time-series forecasting, machine learning and business intelligence. Evaluated 8 forecasting algorithms for banking analytics, developed 5 Power BI dashboards and built a customer churn model achieving approximately 89% validation accuracy. Published researcher in computer vision and deep learning. Skilled in Python, SQL, ETL development, data quality and model evaluation.

TECHNICAL SKILLS

Programming:	Python, SQL, JavaScript, TypeScript, C++, C
Machine Learning:	Predictive Modelling, Classification, Customer Churn Prediction, Time-Series Forecasting, Model Evaluation, Deep Learning
Analytics and Visualization:	Power BI, Dashboard Development, Forecast Performance Analysis, Actual-versus-Predicted Analysis, Data Visualization
Data Engineering:	ETL Pipeline Development, Data Ingestion, Data Transformation, Data Quality, DDL Generation, Schema Management, Pipeline Monitoring
Tools and Frameworks:	TensorFlow, Keras, PyTorch, scikit-learn, OpenCV, Ultralytics YOLO, Git, GitHub Actions, Docker, FastAPI, Vertica, Cloudian Object Storage, Langflow, LangChain, RAG

EXPERIENCE

Technical Consultant | Hewlett Packard Enterprise (HPE) Aug 2025 – Present · Gurugram, India

- Built a four-stage **ETL pipeline** moving millions of records from Cloudian object storage to Vertica, automating DDL generation and schema updates and cutting manual pipeline maintenance by **~60%**.
- Developed a **customer churn prediction model** on quotes, contracts and survey data, reaching **~89% validation accuracy** to support customer retention analysis.
- Engineered an automated **Aadhaar masking pipeline** at large scale for the LIC–HPE project, integrating AI-driven quality-control decisioning and manual verification to improve masking accuracy by **~15%** and reduce processing turnaround time by **~20%**.
- Strengthened banking **analytical pipelines** with centralized error handling, unified execution-status tracking and automated stakeholder notifications, reducing pipeline failures by **~30%**.
- Developed custom **workflow automation tools** for the Project Management Office, removing recurring manual tasks and saving **~56 hours** of effort per week.
- Developed a **retrieval-augmented generation (RAG)** application for natural-language retrieval of technical project documentation, with automated ticket escalation and response workflows using Langflow, MailHog and Zammad.

AI/ML Internship Trainee | Hewlett Packard Enterprise (HPE) Feb 2025 – Jul 2025 · Gurugram, India

- Developed and evaluated a **forecasting pipeline across 8 machine learning algorithms** for banking analytics, achieving **92.4%** product-level forecasting accuracy.
- Built **5 Power BI dashboards** tracking forecasting outputs, actual-versus-predicted trends and product-level performance.

- Diagnosed and resolved NaN predictions and dimensional mismatches, improving data quality and consistency in downstream forecasts.
- Compared forecasting model performance to identify suitable approaches for product-level banking analytics.

Summer Research Intern | NIT Raipur May 2024 – Jun 2024 · Raipur, India

- Designed **FMANet**, a multi-level fusion network reaching **95%** accuracy on the Colorectal Histology Dataset and **97%** on NCT-CRC-HE-100K, outperforming baseline models.
- Proposed an attention-based deep neural network for kidney-ailment diagnosis, achieving **99.48%** accuracy on CT imaging data.

Data Science Intern | Tata Power Delhi Distribution Limited Apr 2024 – May 2024 · New Delhi, India

- Developed machine learning systems for switchgear automation, improving operational efficiency by **15%**.
- Built a solar-panel anomaly detection model to flag faults ahead of manual inspection.

EDUCATION

M.Tech, Data Science and AI (Online) | IIIT Dharwad Aug 2026 – 2028 (Expected)

B.Tech, Computer Science | Amity University, Noida 2021 – 2025
CGPA: 9.00 / 10

SELECTED PUBLICATIONS

- Integrating Machine Learning for Optimized Credit Card Processing: Enhancing Acquisition, Approval, and Fraud Detection. WCONF, 2025.
- Optimizing Cloud Resources for Financial Market Prediction: A Machine Learning Study on NVIDIA Stock Data. WCONF, 2025.
- Cloud-Based SaaS Solutions for Predictive Sales Forecasting in E-Commerce. WCONF, 2025.
- Reducing the Carbon Footprint of Data Centers: CNN-Transformer-Based Workload Prediction for Green Cloud Computing. International Conference on Computational Intelligence and Network Security, 2025.
- Fused Multi-Level Attention Features with a Constraint Fusion Network for Colorectal Tissue Classification Using Histopathological Images. Computers and Electrical Engineering (Elsevier), 2025. DOI: 10.1016/j.compeleceng.2025.110296
- Attention Based Deep Neural Network for Classification of Kidney Ailments Using CT Images. IEEE ICCCNT, 2024. DOI: 10.1109/ICCCNT61001.2024.10723909
- Plant Disease Identification Using a Dual Self-Attention Modified Residual-Inception Network. IEEE ICUMT, 2023. DOI: 10.1109/ICUMT61075.2023.10333302

ACHIEVEMENTS

- Best Social Impact Project, TECHNOVATE'25 (Amity University), for the final-year project "Smart Recycling Bin"
- Winner, FlyHigh Coding Challenge, selected for the 4.0 Tech Camp, Dubai
- 2nd Place, Technopreneur Hackathon, 4.0 Tech Camp, Dubai

CERTIFICATIONS

- NVIDIA-Certified Associate: AI Infrastructure and Operations, NVIDIA, 2025
- CCNA: Introduction to Networks, Cisco, 2024