ATUL BHARDWAJ

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Location: Seattle, Washington

Education

Masters in Computer Science — Data Science Specialization — Seattle, WA
Seattle University — GPA - 3.6 — Dean's list: Fall 24 — *Expected - March 2026*
Courses: *Artificial Intelligence, Machine Learning, Data Science, Distributed System, Big Data Analytics, Visual Analytics, SaaS*

Bachelor of Technology — Computer Science Engineering — Haryana, India
Maharshi Dayanand University — GPA - 3.5 — *Sep 2020 - May 2024*

Technical Skills

- **Programming Languages**: Python, SQL, R, C++, Java, JavaScript, Node.js
- **Machine Learning**: Scikit-learn, TensorFlow, PyTorch, Time-Series Forecasting, Clustering (K-Means, GMM)
- **Data Analytics**: Tableau, Power BI, D3.js, Matplotlib, Seaborn, Plotly
- **Databases**: PostgreSQL, MySQL, DynamoDB, CosmosDB, Hive (HQL), Microsoft Access
- **Cloud & Big Data**: AWS (EC2, EMR, Lambda, S3), Azure (Functions, App Service), Apache Spark, Hadoop

Experience

- **Data Science Consultant** — Seattle, WA
  Statistics Without Borders — *Sep 2025 - Present*
  - Drove strategic insights for Women in Sport by analyzing 14+ survey datasets (n > 2,200) using Python, SQL, and statistical modeling (logistic regression, factor analysis, clustering); findings directly informed senior management strategy to improve engagement and reduce dropout in sports participation programs.
  - Translated complex statistical results into executive-ready visualizations and presentations, enabling non-technical stakeholders to make data-driven decisions on program design and resource allocation.
  - Mentored 7 cross-functional project teams on reproducible data workflows, statistical best practices, and compelling data storytelling, strengthening organizational analytics capabilities.
- **Data & Service Operations Assistant** — Seattle, WA
  Seattle University — *Jun 2025 - Present*
  - Reduced guest parking complaints by 80% by analyzing seasonal demand patterns in Power BI and Python; recommended strategic staff reallocation that improved response times and customer satisfaction.
  - Applied Gaussian Mixture Model (GMM) clustering to segment 5 distinct departmental behavior patterns; insights enabled targeted communication strategies that reduced unnecessary support tickets by 25%.
  - Automated data extraction from Microsoft Access databases using optimized SQL queries, eliminating manual entry errors and improving data accuracy from 85% to 100%; saved 30-40 staff hours per month.
  - Collaborated with IT, business units, and external customers to troubleshoot operational issues, optimize workflows, and deliver data-driven solutions—demonstrating strong cross-functional communication and customer-facing consulting skills.

Relevant Projects

- **SmartStock – Automated Inventory & Ordering SaaS (Azure Cloud)** — In Progress — Sep 2025
  - Architecting a cloud-native SaaS solution on Microsoft Azure, integrating Azure Functions, Cosmos DB, and App Service for real-time inventory tracking and automatic reordering.
  - Implementing microservice-based APIs to support low-stock alerts, purchase-order workflows, and supplier management.
  - Building branch-level analytics dashboards in Power BI to help shopkeepers monitor sales trends and optimize purchasing strategies.
- **Real-Time TF-IDF Search Engine (AWS Cloud, Big Data)** — Mar 2025
  - Deployed a scalable distributed search engine on AWS infrastructure (EMR, EC2, S3, DynamoDB, Lambda) using Apache Spark for parallel processing, demonstrating production-level cloud architecture and big data processing capabilities.
  - Implemented TF-IDF-based document ranking algorithm in Python, processing large-scale text datasets to deliver fast, relevant search results in real-time.
- **Heart Disease Predictor (Machine Learning)** — Sep 2024
  - Developed and compared 6 supervised learning models on 304 patient records, optimizing precision, recall, and F1-score to minimize false negatives for clinical decision support.
  - Published findings in IEEE Xplore, demonstrating ML research methodology and healthcare domain application.

Publications and Certification

- **Evaluating ML Algorithms for Heart Disease Prediction (Machine Learning, Healthcare)**: *IEEE Xplore, 2024*
- **Bidirectional LSTM for Toxic Comment Classification (Deep Learning, NLP)**: *EAI Journal, 2024*
- **AWS Skill Center**: Cloud Practitioner 1-4 and AI Practitioner 1-5 (ongoing – expected Nov 25)