GURMEHAK KAUR

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Data professional with 3 years of management consulting experience, passionate about extracting insights from complex datasets and bridging technical solutions with business needs. Experienced in SQL, Python and data visualization and storytelling.

EDUCATION

Master of Data Science (Grade: 4.0/4.0)   Jun 2025
The University of British Columbia, Vancouver, BC
- Coursework: Machine Learning, Deep Learning, Database Management, Cloud Computing, Statistics, Time Series

Bachelor of Engineering in Electronics & Communications (Grade: 3.4/4.0)   Jul 2021
University of Delhi (NSIT), New Delhi, India
- Coursework: Computer Programming, Data Structures, Artificial Intelligence, Big Data, Operating Systems

EXPERIENCE

Data Scientist, Centre for Brain Health, UBC (part-time)   May 2025 - Present
- Redesigned data pipelines and modularized a large dashboard codebase, to improve performance and usability for the research team
- Created new database tables and migrated data workflows to PostgreSQL for more efficient data management and analysis
- Built new visualizations and dashboard features through Streamlit to support data exploration and reporting; currently working on an unsupervised clustering model

Analytics Associate Consultant, ZS   Jun 2021 - Jul 2024
ZS is a leading management and consulting firm in Healthcare, Pharmaceutical and Life Sciences Industries in the US
- Led management consulting for top pharmaceutical clients, delivering insights on commercial strategy, market access, forecasting, drug launch, longitudinal patient data analysis
- Developed a fraud detection process by creating a KPI library that identified ~$11M in recoverable revenue
- Automated several operational workflows and combined them into a single dashboard, reducing turnaround time by 70%
- Managed $13B worth of sales data annually for a pharma client, regularly conducting trends analysis on it
- Served as a subject matter expert in revenue leakage; mentored teams on improving gross-to-net revenue by mitigating losses

PROJECTS

Deep Learning Model for Brain Signals (Data Science Researcher with UBC and University of Utah, 2025)
- Contributed to pioneering research on human balance control, bridging data science and health research
- Designed and implemented a custom, biologically inspired model with RNN to analyze complex time-series brain/muscle neuron activity, which mimics the brain's probabilistic processing to understand how it perceives motion and maintains balance

Mortality Risk Prediction for Heart Failure Patients (UBC, 2024)
- Built a logistic regression model in Python to predict heart failure survival outcomes (82% accuracy - ongoing improvements to handle minority class). Containerized the solution using Docker for scalability and deployment

IoT-based Smart Mirror with Face Detection & Recognition (NSIT, 2021)
- Built an IoT-powered smart mirror using deep neural networks in Python for face detection and recognition. Integrated JavaScript, HTML and Raspberry Pi to create a functional, interactive smart mirror

TECHNICAL SKILLS

- Programming: Python, R, SQL (PostgreSQL, NoSQL), C/C++
- Visualization & Tools: Tableau, Power BI, MS Excel, Alteryx, GitHub, Docker, AWS
- Data Science: frameworks (NumPy, Pandas, Matplotlib, Scikit-learn, Altair, Pytorch), Neural Networks, A/B Testing
- Business Analytics: ETL, exploratory data analysis, client consulting, problem solving, decision-making, collaboration

ACHIEVMENTS

- **3rd Place (Fan Favorite), Analytics Hackathon - UBC Sauder School of Business** (Oct 2024): Presented a sentiment analysis-based solution to enhance learning from forum discussions, demonstrating problem-solving & presentation skills

- **Deep Learning for Disease Diagnosis** publication for Elsevier, (*Deep Learning for Medical Applications with Unique Data (2022)*): Co-authored a chapter evaluating deep learning techniques for disease diagnosis in skin and brain conditions - analyzed model performances against traditional diagnostic methods and summarized key insights