DEEPAK LEKHAK

Kitchener, ON

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Technical Skills

Analytics & Reporting: Power BI, Looker Studio, Excel (Advanced), Office Suite, SQL (PostgreSQL, MySQL, BigQuery), Azure Data Lake, Power Automate, Databricks

Languages and Tools: Python, VBA, C, HTML/CSS, JavaScript, Bash, VS Code, IntelliJ

Technologies/Frameworks: D3.js, Pandas, Matplotlib, TensorFlow, NumPy, PyCaret, Scikit-learn

Certifications: IBM Data Science Professional Certificate, Google IT Support Professional Certificate

Experience

University of Waterloo   **May 2023 – Aug. 2023**

Data Analyst, Business Intelligence   *Waterloo, ON*

- Created and executed **test cases for Power BI dashboards**, validating data accuracy against SQL sources and verifying slicer, filter, and drill-down functionality.
- Delivered **recurring KPI reports and dashboards** to stakeholders, supporting evaluation of campaign performance and strategic planning.
- Queried and transformed data from **SQL databases**, validating insights in **Excel** to ensure consistency across multiple sources.

Projects

Employee Churn Prediction 📊 | *Python, PyCaret, BigQuery, Looker Studio*   **Aug. 2025 – Sept. 2025**

- Achieved **98.8% accuracy** and **0.99 AUC** with a **Random Forest classifier**, demonstrating ability to optimize predictive models and measure effectiveness of analytical solutions.
- Ranked **job satisfaction** as top churn driver (**31.7% importance**) via feature engineering and model interpretation, surfacing insights analogous to **customer loyalty analysis**.
- Processed **15K+ employee records** from BigQuery with pipelines for imputation, encoding, and balancing; integrated outputs back into BigQuery for reporting and stakeholder use.
- Built **Looker Studio dashboards** visualizing churn by **department, salary, and tenure**, enabling executives to track key **performance indicators (KPIs)** across 10+ business units.

HR Analytics Dashboard 📊 | *Power BI, Data Visualization, HR Analytics*   **Jul. 2025 – Aug. 2025**

- Built an **interactive Power BI dashboard** analyzing **5,124 absenteeism hours** across **740 cases**, enabling HR to monitor trends by **employee category, weekday, and season**.
- Identified **Category 3 employees: Education** as highest-risk with **765 hours (14.9%)** of total absenteeism, guiding workload balancing and retention strategies.
- Analyzed top causes of absenteeism (**149 medical**, **112 dental**, **69 physiotherapy**) to uncover health related drivers, supporting wellness initiatives.
- Visualized absenteeism peaks by **weekday** (**1,489 hours**) and seasonal patterns (Fall, Winter), enabling better resource planning and policy adjustments.

Pundit Statbook 🔗 | *Next.js, TypeScript, D3.js, React*   **Mar. 2025 - Apr. 2025**

- Built a responsive football analytics dashboard with role-based pages for Defenders, Midfielders, Forwards, and Goalkeepers.
- Implemented interactive radar charts with **D3.js** for player and system metrics, including animations, tooltips, and dynamic resizing.
- Developed modular React components (`RadarChart`, `SystemRadarChart`, grids) and leveraged Next.js SSR for fast performance.

FaceNet CNN Implementation ⧉ | *Python, TensorFlow, Keras, FaceNet*   **Jan. 2024 - Apr. 2024**

- Implemented **FaceNet architecture** in **TensorFlow/Keras**, building custom convolutional and embedding layers from scratch.
- Designed a training pipeline with **triplet loss**, preprocessing, and **mini-batch sampling**, improving embedding robustness.
- Achieved **90% validation accuracy** on face recognition by generating **128-D embeddings**, validated against baseline models.

Education

University of Waterloo   **Sept. 2022 - May 2027**

Honours Bachelor's Degree in Mathematics   *Waterloo, ON*