NIRAJAN KHADKA

Mississauga, ON | [**Nirajan.Tech@gmail.com |**](mailto:Nirajan.Tech@gmail.com) **437-344-5361 |** [**www.github.com/NirajanKhadka**](https://github.com/NirajanKhadka)**|** [**www.linkedin.com/in/nirajan-khadka/**](http://www.linkedin.com/in/nirajan-khadka/)

# WORK EXPERIENCE

## Volunteer Data Analyst | CELLECT February 2025 – April 2025

## Conducted comprehensive research on regulatory pathways, including 510(k) and De Novo submissions, synthesizing insights to ensure CELLECT’s NanoPad aligns with FDA guidelines and supports regulatory strategy.

## Managed an Excel database tracking relevant medical devices and companies, extracting key regulatory documents for analysis.

## Collaborated with cross-functional teams using FDA databases and Pitchbook to support strategic decisions and product classification.

## Freelance Data Analyst | Self-Employed December 2022 – July 2024

* Guided 30+ clients through data science projects, using Python, SQL, and Power BI for analytics, modeling, and dashboards.
* Created 10+ interactive dashboards in Power BI and Tableau, including sales analytics, driving data-informed decisions.
* Facilitated 50+ virtual sessions on data workflows, increasing project approval rates by 25%, and earning a 4.9/5.0 client rating.

## Machine Learning Intern | Ignitus | Pittsburg, Unites States April 2020 – September 2020

* Authored k-NN learning module content for an LMS, incorporating case studies like customer segmentation and fraud detection.
* Designed hands-on exercises, including predictive modeling and anomaly detection, aligned with financial and retail industry.
* Conducted data analysis using Pandas to identify learning behaviors, enabling improvement in LMS content engagement.

# KEY PROJECTS

## Learning Platform Engagement Analysis ([Link](https://github.com/NirajanKhadka/Tracking-User-Engagement-SQL_EXCEL_PYTHON)) MySQL, Excel, Python, Pandas, Scikit-learn, Matplotlib, Seaborn

* Analyzed user engagement data (632 records) with SQL, Excel, and Python, revealing a 15% engagement drop among paid users from Q2 2021 to Q2 2022.
* Formulated and executed SQL queries for data extraction and preprocessing, including the creation of time-series views and periods.
* Conducted hypothesis testing in Excel, confirming with 95% confidence that paid users, on average, have more engagement.
* Utilized Python for outlier removal and developed Regression models, achieving 0.30 MSE in forecasting future engagement.

## Credit Card Loan Default Prediction ([Link](https://github.com/NirajanKhadka/Dockerized-FastAPI-Loan-Prediction-Model)) Python, Pandas, Matplotlib, Seaborn, Scikit-learn, AWS Lambda

* Built classification pipeline on 32K+ records with 96.3% precision; deployed with Fast API & Docker on AWS.
* Performed EDA with Pandas and Seaborn, identifying income-to-loan ratio as a primary default risk factor through feature analysis.
* Designed and optimized a machine learning pipeline, achieving 96.3% precision and 0.81 F1-score in predicting loan defaults.
* Deployed the model on AWS Lambda with FastAPI and Docker, enabling real-time predictions with a 300ms inference time.

## Customer Churn Power BI dashboard ([Link)](https://github.com/NirajanKhadka/Customer_Churn_PowerBI_Python) Python, Pandas, Matplotlib, Seaborn, Scikit-learn, Power BI

* Built a machine learning model with 93% accuracy using XGBoost and Random Forest on 2K+ customer records, engineering features like customer tenure and usage frequency.
* Identified key churn indicators from customer data using statistics, enabling targeted retention strategies for high-risk segments.
* Created an interactive Power BI dashboard with churn trends and predictive model outputs enabling real time decisions.
* Automated model training and dashboard updates with Airflow, reducing intervention and boosting efficiency by 30%.

# EDUCATION

## Lambton College| Mississauga, Ontario, Canada April 2023 – December 2024

PG in Business Analytics | GPA: 3.69/4.0 (Dean’s List)

## Lovely Professional University| Phagwara, Punjab, India August 2018 – July 2022

B. Tech in Computer Science and Engineering | CGPA: 8/10

Specialization in **Machine Learning and Big Data**

# SKILLS

# ****Languages & Libraries:**** Python (Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn), SQL ,MYSQL, Git ****Data Analysis & Modeling:**** EDA, A/B Testing, Hypothesis Testing, Statistical Modeling, Machine Learning ****BI & Visualization:**** Power BI (DAX), Tableau, Excel (PivotTables, VLOOKUP, Power Query) ****Web & APIs:**** REST APIs, Fast API, Flask, Streamlit ****Cloud & Deployment:**** AWS (EC2, S3, Lambda, QuickSight), Docker ****Certifications:**** AWS Certified Cloud Practitioner, Google Advanced Data Analytics Certificate