NIRAJAN KHADKA

Mississauga, ON | Nirajan.Tech@gmail.com | 437-344-5361 | www.github.com/NirajanKhadka | www.linkedin.com/in/niraian-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)   **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)   **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)   **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