

Yiyasu Paudel

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PROFESSIONAL EXPERIENCE

Data Science Consultant

July 2024 – Present

Pinnova Inc.

Houston, TX

- Led client-facing automation for SAP migration, introducing 286 test cases that reduced testing time by 30% and minimized errors by 40% to maintain reliability of data migration cycles
- Consolidated table entries to improve operational efficiency by 25% and provide more usable data for data-driven decision-making
- Visualized data in Power BI and presented findings through business and technical perspectives

Data Scientist

October 2023 – July 2024

Quartet Engineers

Houston, TX

- Developed and implemented scalable data pipelines using Python to analyze user behavior and historical data to forecast financial trends
- Automated report generation by migrating from Microsoft Excel to SpectraQUEST. Reduced generation time by 30% and increased reliability of reports
- Introduced Salesforce and led weekly learning sessions to optimize business operations and enhance client communication for improved efficiency

Research Assistant

September 2022 – January 2023

Mack Institute for Innovation Management

Philadelphia, PA

- Conducted data analysis using Python-based web scraping tools (LibCurl, Scrapy, BeautifulSoup) to gather and analyze user data for the Penn ecosystem
- Prioritized roadmap by presenting insights through visualization tools (NetworkX, Bokeh) to technical and non-technical audiences

Data Scientist

December 2020 – July 2021

Machhapuchchhre Bank Limited (MBL)

Kathmandu, NP

- Created A/B test around hypothesis to improve machine learning-based fraud detection model with 92% accuracy
- Collaborated with the Business Intelligence team to optimize SQL queries, accelerating data migration from legacy banking software and reducing database loading time by 52%
- Contributed to strategic decision-making to improve security and mitigate risks across Business Intelligence teams

Data Analyst

July 2020 – November 2020

Fonepay (F1Soft International Pvt. Ltd.)

Kathmandu, NP

- Proactively initiated and led collaboration with cross-functional teams to implement real-time Tableau dashboards to track key performance indicators, improving financial reporting efficiency by 20%
- Enhanced data pipeline performance for large-scale QR transaction data, resulting in a 35% improvement in processing speed and system performance, contributing to a seamless user experience for Nepal's first digital wallet

EDUCATION

University of Pennsylvania

Philadelphia, PA

Master of Science in Engineering, Data Science

Christ University

Bangalore, IN

Bachelor of Science, Computer Science, Mathematics, Statistics

TECHNICAL SKILLS

Programming Languages: Python (NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, SQLAlchemy), R (dplyr, tidyr, sqldf, ggplot2, caret, tseries), SQL (MySQL, PostgreSQL), SAP S/4HANA, Spark, HTML/CSS

Technologies and Frameworks: Business Intelligence Tools (Power BI, Tableau, QuickSight), Product Analytics, Data Mining, Scripting, A/B Testing, Forecasting and Trend Analysis

PROJECTS

Face Mask Detection | Python (torch, torchvision, sklearn, matplotlib, numpy)

May 2022

- Developed a CNN model with 97% accuracy for face mask detection, utilizing transfer learning techniques with ResNet50 and MobileNetV2

Boston Airbnb and Weather | MySQL, JavaScript, HTML, CSS

December 2021

- Collaboratively built a full-stack web application for analyzing Airbnb listings based on weather patterns and seasonal market trends, improving rental revenue forecasting

LEADERSHIP EXPERIENCE / ORGANIZATION

Python Instructor: Fife-Penn CS Academy coding club instructor for 4th - 8th graders at Penn Alexander School

Graduate Teaching Assistant: Master of Science in Social Policy: Practical Machine Learning Methods (MSSP 6080)

Graduate and Professional Student Assembly (GAPSA): Council Member

Society of Women Engineers: Collegiate member