Patrick Gervadis Ninan

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SUMMARY

Data Scientist with 3+ years of experience delivering machine learning and analytics across risk, business operations, HR analytics, and automation. I specialize in Python, AI, and SQL, building end to end solutions from feature engineering and evaluation to production

EDUCATION

The University of Texas at Dallas   May 2025
*Master of Science, **Business Analytics and Artificial Intelligence***   **GPA 3.8**
Relevant Coursework: Data Science, Advanced Statistics, Applied Machine Learning, Deep Learning, Prescriptive & Predictive Analytics, Time Series Forecasting, DBMS, Causal Inference & A/B Testing, Marketing Technology

SRM Institute of Science and Technology   May 2019
*Bachelor of Technology, **Computer Science and Engineering***   **GPA 3.5**

SKILLS

Python, R, SQL advanced, CI/CD, Power BI, Tableau, Agile, Git, Pandas, NumPy, Excel, Scikit learn, LightGBM, XGBoost, Feature Engineering, Imbalanced Classification, Threshold Tuning, ROC AUC, Precision Recall, F1, A/B Testing, Experiment Design, KPI Design, Model Monitoring (Drift, Alerts), Dockerized Deployment, AWS SageMaker, S3, Redshift, GCP BigQuery, Snowflake, Docker, Kubernetes

PROFESSIONAL EXPERIENCE

Data Scientist, Team Captain| Community Dreams Foundation   **August 2025 –Present**
- **Led 5-person team** delivering internal job portal for 200+ members with 90+ postings
- **Built KPI reporting** to track alumni engagement and applications, guiding feature prioritization and program decisions

Data Analyst | IT Security | Part-Time| Office of Information Technology - UT Dallas   **August 2024 – December 2024**
- Validated server backup data across multiple servers, **achieving 99.5% validation accuracy & enhancing reporting consistency**
- Built Power BI dashboards and anomaly alerts, **lowering vulnerability exposure risk by 25% overall**
- Applied SageMaker clustering and threshold tuning to prioritize incidents and **strengthening investigation efficiency across teams**

Senior Data Science Analyst | Business Operations | Infosys Ltd   **December 2021 – July 2022**
- Implemented executive operations dashboards for utilization, SLA, and cycle time, **raising operational efficiency by 20%**
- Led data migration **with 98% accuracy, cutting downtime by 40%** and earning **leadership recognition**
- **Developed HRIS attrition risk classification models**, improving workforce planning accuracy by 18% for staffing decisions

Data Science Analyst | Automation & Process Improvement | Infosys Ltd   **January 2019 – December 2021**
- **Delivered 10+ automation solutions** cutting onboarding effort 45%, earning **Top Performer** recognition for impact
- Used hypothesis testing and clustering on utilization metrics to optimize staffing, **reducing underutilization by 35%**
- Developed **pipelines across 8 departments, saving 500+ staff hours annually through automation**
- Implemented Tableau dashboards and SQL analysis**, lowering reporting turnaround time by 40% for stakeholders**

ACADEMIC PROJECT EXPERIENCE

[AI Fraud Detection Agent | Python, LightGBM, Streamlit, APIs, Docker](#)   **November 2025 – December 2025**
- Built fraud decisioning agent with Streamlit review workflow, routing actions using LightGBM and calibrated thresholds
- Delivered **26x lift in Block, 10x lift in Review, and 5x lower Allow fraud leakage** versus baseline

[Customer Churn Prediction | Python, Logistic Regression, Decision Trees](#)   **March 2024 – May 2025**
- Engineered features and trained churn model **achieving 0.84 ROC AUC, increasing retention targeting by 20%**

[A/B Testing & Pricing Simulation | Wharton, Statistics| Consumer behavior](#)   **March 2025 – May 2025**
- Designed controlled **tests**, increasing simulated profitability by **87% (~$165K revenue gain)** using **statistical rigor and KPI tracking**

LEADERSHIP

Graduate Teaching Assistant | University of Texas at Dallas   **January 2025 – May 2025**
- **Mentored 100+ students** in analytics and machine learning, improving engagement and performance **by 25% overall**
- Recognized as a **Super TA**; built Python and SQL tutorials and **graded coursework with clear, consistent feedback**

CERTIFICATIONS

Graduate Certificate in Machine Learning | Business Decision Analytics | BI & Data Mining | AWS Machine Learning Associate