MESO FRANCIS

Machine Learning Engineer & Data Scientist

📧 mesofrancis@outlook.com   🔢 +1 (210) 926-1190   📍 Dallas, TX   🔗 linkedin.com/in/mesofrancis

💻 github.com/MessoJ   🌐 messo.me

PROFESSIONAL SUMMARY

Passionate Machine Learning Engineer and Data Scientist with 2+ years of experience transforming raw business problems into intelligent AI solutions. Specialized in end-to-end ML engineering, data automation, and scalable cloud-native systems. Proven track record of delivering 92%+ accuracy in predictive models and reducing manual data processing by 75%. Skilled in Python, AWS, React.js, and building production-ready ML pipelines that drive real business impact.

TECHNICAL SKILLS

Programming Languages

- Python, JavaScript (ES6+), SQL, R

Machine Learning & Statistics

- Pandas, NumPy, Scikit-learn, Statsmodels
- XGBoost, LightGBM, Unsupervised Anomaly Detection
- EconML, Causal Inference, Comparative Model Evaluation

Cloud & DevOps

- AWS (IAM, S3, Lambda, API Gateway, RDS, CloudWatch)
- Docker, GitHub Actions, AWS SAM, CloudFormation
- Infrastructure as Code (IaC), Serverless Architecture

Backend & Data Engineering

- FastAPI, boto3, Real-Time Data Pipelines
- API Design & Implementation, Event-Driven Architecture

Databases & Visualization

- PostgreSQL (AWS RDS), Time-Series Data Modeling
- Streamlit, Plotly Dash, Interactive Dashboards

Frontend & Tools

- React.js, HTML5 & CSS3, Tailwind CSS
- Git, Version Control, Automated Testing & CI/CD

PROFESSIONAL EXPERIENCE

Machine Learning Engineer
Freelance | Aug 2024 - Present
Remote

- Transform raw business problems into working AI tools, starting with client needs analysis and building end-to-end solutions from React dashboards to Python-powered ML systems
- Turned manual spreadsheet processes into one-click reports using React + Python tools, saving 4+ clients 75% time and eliminating Excel-based workflows
- Built 92%-accurate churn detection model that spots at-risk customers before they leave, implementing real-time prediction systems
- Transformed chaotic data into beautiful, living dashboards with React visualizations that make real-time insights accessible
- Developed automation bot that cuts data preprocessing time by 75%, providing clients with 10+ extra productive hours daily
- Open-sourced Fortune 500-grade prediction engine to share great tools with the community

Data Science Intern
Accenture | Jun 2024 - Nov 2024
Remote

- Built Python/SQL systems for customer churn prediction and sentiment analysis using specialized classifiers, teaching computers to understand human behavior patterns
- Optimized sluggish ETL workflows on AWS/Azure, making data processing 30% faster and giving teams back a full workday each week
- Designed Tableau/Power BI dashboards with counterfactual explanations showing not just predictions but why models made decisions
- Partnered with engineers and consultants to transform technical solutions into client strategies, playing key roles in 3+ projects where data directly shaped business roadmaps

EDUCATION

Bachelor of Economics & Statistics
University of Nairobi | 2020 - 2024
Graduated Cum Laude (GPA: 3.7/4.0) | Relevant Coursework: Statistical Analysis, Econometrics, Data Science, Machine Learning

CERTIFICATIONS

- AWS Machine Learning Fundamentals - Udacity (2025)
- Machine Learning with Python: Linear Models to Deep Learning - MITx (EDX) (2024)
- AI Programming with Python - Udacity (2024)
- Business Analytics - Udacity (2023)

KEY PROJECTS

Macro Economic Engine

Automated, cloud-native platform that ingests real-time economic data streams, uses unsupervised machine learning to detect statistically significant anomalies, and provides causal inference models for economic forecasting.

Technologies: Python, Machine Learning, Cloud Computing, Real-time Data, Anomaly Detection

Customer Churn Prediction

Comprehensive machine learning pipeline for predicting customer churn in telecommunications with 92% accuracy. Includes data preprocessing, feature engineering, model training, and deployment with detailed performance analysis.

Technologies: Python, Machine Learning, Data Analysis, Feature Engineering, Model Deployment

Data Automation Bot

Python-based bot that automates data preprocessing and reporting, integrating with APIs and SQL databases. Reduced manual effort by 75% and provides clients with 10+ extra productive hours daily.

Technologies: Python, APIs, SQL, Automation, Database Management

Sentiment Analysis Suite

Machine learning project implementing three different linear classification algorithms for sentiment analysis of text reviews. Compares performance of Perceptron, Average Perceptron, and Pegasos algorithms.

Technologies: Python, NLP, Sentiment Analysis, Perceptron, Linear Classification, Pegasos

LEADERSHIP & COMMUNITY

- Open source contributor sharing Fortune 500-grade prediction engines and tools with the community
- Passionate about making AI accessible to everyone through knowledge sharing and collaboration
- Committed to lifelong learning and staying updated with latest ML/AI research and technologies
- Mentoring aspiring data scientists and contributing to open-source projects