Sailesh **Subashbabu**

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Summary

Data Scientist/ML Engineer at LexisNexis ThreatMetrix. 5+ years of specialized work in ML infrastructure, pipelining, and fraud modeling. Proven track record of end to end project ownership, working across teams and time zones in Agile/Scrum environment.

Work Experience

ThreatMetrix

San Jose, CA

Senior Data Scientist/Data Scientist II — *Oct 2021 - Current*

Smart ID

- Enhanced Locality Sensitive Hashing (LSH) and weighted scoring models through attribute and feature analysis to improve precision by 12% and recall by 45% for device recognition across multiple browsers/mobiles
- Assumed control of and enhanced a sophisticated simulation platform dedicated to benchmarking and conducting A/B testing for proposed SmartID changes
- Collaborated with various teams across multiple time zones (SF, London, Sydney) to implement changes to device fingerprinting and preprocessing for SmartID attribute refinement

Model Performance Tracking (MPT)

- Led the development of customer-facing feature for real-time performance tracking, achieving a significant reduction in client insight latency from over 24 hours to under 1 hour
- Orchestrated end-to-end solution deployment for MPT, encompassing Python codebase, Dockerfiles, formatted Excel reports, logging infrastructure, and CI/CD pipeline
- Deployed over 3000 lines of production-ready and customer-facing code in a single release, resulting in over 15 customers adopting MPT to benchmark performance

Customer Facing Analytics (CFA)

- Guided ML pipeline development and automated model governance for multiple logistic regression and gradient boosting machine models on CFA platform.
- Developed comprehensive feature analysis documentation accompanying each model, enabling customers to conduct thorough reviews and audits of their models.

Additional Projects

- Designed and developed automated performance tracking dashboard in Superset for Flagship models
- Directed and managed intern project from inception to completion on in-depth feature analysis, resulting in the removal of over 10,000 features from consideration for future model development
- Mentored and supported junior team members in CFA onboarding and Flagship model design/implementation

Data Scientist I — *Oct 2019 - Oct 2021*

- Designed and implemented flagship fraud detection models across multiple event types (payment, login, new account creation) in key industries including banking, e-commerce, and gaming.
- Developed and managed a 24/7 case management service for high-profile clients, ensuring prompt and effective resolution of issues.
- Created Flask-based internal micro-services for building, optimization, and ongoing tracking of model performance.
- Conducted research and delivered presentations on advanced topics such as time-series forecasting and visual data interpretation methodologies.

Machine Learning Intern — *Summer 2018*

- Designed and implemented a Python-based data visualization toolkit tailored for time-series analysis.
- Developed an FFT-based algorithm to effectively remove trends for anomaly and outlier detection in fraud mapping.
- Ensured algorithm accuracy and reliability, facilitating its integration into production environments.

Skills

Programming	Python, SQL, Go, HTML, CSS
Python Modules	Pandas, Scikit-learn, LightGBM, PyTorch, Flask, Matplolib
Tools	Linux/Unix CLI, Docker, Snowflake, Jenkins, ArgoCD, Superset, Presto, Yellowbrick, Hadoop, Git, Jira, Confluence

Education

University of Illinois at Urbana-Champaign

Urbana, IL

B.S. in Electrical Engineering