MIHIR LAKHANI

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PROFESSIONAL EXPERIENCE

AI/ML Research Intern – Network Digital Twin Project (in)   *Jul 2025*
(SRM Institute + Nokia Campus Connect)

- Recognized for applied AI excellence with the 3rd Prize at Nokia Campus Connect 2025.
- Spearheaded design and deployment of an interpretable Random Forest ML pipeline for 6G SLA breach prediction, achieving F1 Score of 0.92 and driving real-time operational efficiencies.
- Engineered SHAP-based feature attribution to automate control actions, fostering accountability and innovation across engineering teams.

PROJECTS

Automated Machine Learning (AutoML) Pipeline (github)   *Jun 2025 - Present*

- Architected an end-to-end AutoML system that ingests raw datasets, applies tailored preprocessing for multiple model types, and compares outputs to select the optimal model.
- Delivered a robust, reusable pipeline demonstrating full ownership, technical leadership, and enabling rapid, data-driven decision-making, for scalable, plug-and-play usability.

Parkinson's Disease Detection using ITDO Attention DenseNet (github)   *Jul 2025 - Aug 2025*

- Developed a novel hybrid model combining attention mechanisms with an Improved Tasmanian Devil Optimization algorithm for enhanced early disease detection.
- Engineered EEG signal preprocessing and feature extraction to extract clinically relevant biomarkers with high accuracy, delivering a high-impact healthcare solution.

Fraud Detection on 6M+ Bank Transactions (github)   *May 2025 - Jun 2025*

- Engineered a robust fraud detection system leveraging XGBoost and SMOTE, reducing false positives by 23% on large-scale real-world data.
- Addressed complex data challenges including class imbalance and multicollinearity, enabling actionable insights for business teams.

Fleet Smart Vehicle Digital Twin using Eclipse Ditto & Kubernetes (github)   *Aug 2025 - Present*

- Designed and deployed a digital twin IoT platform integrating vehicle tracking, data streaming, and real-time analytics using Eclipse Ditto and Docker.
- Orchestrated multi-node Kubernetes clusters for scalable, resilient containerized deployment in edge-cloud environments.
- Demonstrated full-stack system design and cloud-native engineering for intelligent fleet management solutions.

SKILLS

Programming & Languages: Python, C/C++, HTML, CSS, Flask, JavaScript
Frameworks: Jupyter, Eclipse Ditto, Docker, Git/GitHub, PostgreSQL, Notion

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EDUCATION

SRM Institute of Science & Technology — B.Tech in Computer Science (2023–2027)
CGPA **:** 8.43
St. Paul's Sr. Sec School (CBSE) — Class XII (2022)
Maharana Mewar Public School (CBSE) — Class X (2020)

CERTIFICATIONS

- 3rd Prize – Nokia Campus Connect 2025
- 1st Place – Creative Ingenuity 2023 (AutoCAD Design Competition)
- Python for Everybody – University of Michigan (Coursera)
- Microsoft AI & ML Engineering (Coursera)
- Machine Learning with Python – IBM (Coursera)