ADMAN BACHID

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EDUCATION	
Aug 2025	Ph.D. Computer Science – University of New Mexico, Albuquerque, NM USA
	Focus: Machine Learning Advisor: Dr. Trilce Estrada
	Thesis: Unsupervised Learning and Applied LLMs for data stream modeling.

Dec 2015 M.S. Computer Science – University of New Mexico, Albuquerque, NM USA

Focus: Machine Learning and Data Science

Aug 2012 B.E. Electronics Engineering - NATIONAL UNIVERSITY OF SCIENCE & TECHNOLOGY, PAKISTAN Final Project: Spectrum-aware dynamic channel assignment in cognitive radio networks

Selective Work Experience & Projects

Aug 2018	Machine Learning Engineer & Graduate Researcher
Present	Data Science Lab – University of New Mexico, Albuquerque, NM USA

DSX Z Designed and led development of an LLM-based state detection framework, integrating foundation models, representation learning, and explainable AI to identify latent states and generate insights in multivariate streaming data. Enabled new research in time-series explainability and tool adoption.

DRUM Z Architected and operationalized DRUM, a robust unsupervised learning platform for change point detection and real-time inference in streaming data. Improved regime shift detection, reduced anomaly response by 30%, and published results at DAWAK 2023, with ongoing references by peer researchers.

TSX Z Designed a production-ready SmartGrid analytics solution, leveraging deep learning and predictive analytics for automated fault detection, event forecasting, and real-time data visualization. Enhanced datadriven decision making and increased grid reliability for infrastructure stakeholders.

APR 2025 Lead Data Steward

Present Department of Workforce Solutions – State of New Mexico, Albuquerque, NM USA

DRIFT 2 Designed and launched DRIFT, a secure, enterprise-scale data access and orchestration platform, embedding real-time anomaly detection, data governance, and automated compliance enforcement to support highvolume, high-sensitivity data streams for state operations. Led the cross team implementation, standardizing access and monitoring across 10+ business units, streamlining analytics for mission critical workflows, and reducing end-to-end data request turnaround by 40%. Recognized internally as a catalyst for modernizing statewide data management practices.

Dec 2016 OTF Fellow

DEC 2017 Radio Free Asia - (OPEN TECHNOLOGY FUND) & UNIVERSITY OF NEW MEXICO, ALBUQUERQUE, NM USA

Bot-D [☑] Conducted and managed large-scale, real-time social media analytics for election data integrity, deploying cutting-edge bot detection, anomaly analytics, and automated monitoring on multi-million tweet datasets. Drove collaboration with election integrity NGOs, producing actionable reports and open datasets that informed policy recommendations and were cited in international academic publications.

AV 🗹 Designed and implemented advanced information security and malware detection models using machine learning, statistical modeling, and risk modeling techniques. Led research on novel web-based attack vectors and collaborated with global cybersecurity partners to deploy countermeasures, ultimately improving detection rates and supporting the development of policy recommendations for transnational security.

Publications

Aug 2023	Real Time Detection of Regime Shifts in Multivariate Data Streams ♥ − ♥ DAWAK ♥
Apr 2021	Girasol, a Sky Imaging and Global Solar Irradiance Dataset [♥] − ♥ Data In Brief [♥]
DEC 2020	LADPU Smart Meter Data [♥] – ♥ NSF Public Access Repository [♥]
Apr 2019	Presidential Elections in Ecuador: Bot Presence in Twitter $^{\ensuremath{\mathbb{Z}}}$ – \bigcirc ICEDEG $^{\ensuremath{\mathbb{Z}}}$
May 2016	Infect-me-not: A user-centric and site-centric study of web-based malware [♥] − ♥ IFIP [♥]
Oct 2012	Spectrum-aware dynamic channel assignment in cognitive radio networks $^{\ensuremath{\mathbb{C}}}$ – $\ensuremath{f Q}$ ICET $^{\ensuremath{\mathbb{C}}}$
SKILLS	

Coding	Python(TensorFlow, PyTorch, CoreFlow, Sklearn), Bash, Scala, LATEX
Cloud	AWS, Databricks, Snowpark

ML-Ops CI/CD, Model Monitoring, Automation

LLMs, Deep Learning, Unsupervised Models, Streaming Data Analytics **Domain**