Gautam Govindarasan

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Summary

Graduate student in Data Science with strong academic and industry experience across machine learning, NLP, big data engineering, and cloud platforms. Skilled in building predictive models, deep learning architectures, distributed pipelines, and automated analytics workflows. Published author in IEEE and Springer conferences with research in healthcare AI, cybersecurity, and music-driven well-being. Experience at HP delivering technical solutions, troubleshooting complex issues, and supporting global customers under high-volume conditions.

Education

New Jersey Institute of Technology, Newark — Sept 2025 – May 2026 (expected)
M.S. Data Science

Vellore Institute of Technology, Vellore — Sept 2020 – Aug 2024
B.Tech Computer Science and Engineering (Data Science Specialization)

Work Experience

Technical Solutions Specialist, HP Inc. — Oct 2024 – Apr 2025

- Supported global HP hardware/software users, resolving 100+ issues weekly.
- Handled installation, drivers, firmware, and connectivity issues, achieving 92% satisfaction.
- Streamlined troubleshooting workflows, reducing resolution time by 18% and boosting service efficiency.
- Documented recurring problems, updated technical knowledge bases, and assisted with process improvements.
- Collaborated with senior engineers on escalations, gaining experience with IT service management and cross-team workflows.

Data Analyst Intern, Hope Clothing Limited — May 2023 – Aug 2023

- Improved campaign targeting by analyzing customer records (+5% response).
- Built SQL-Python-Tableau dashboards for leadership teams, accelerating reporting and decision-making.
- Applied clustering and forecasting models to purchase behavior, reducing overstock by 12%.
- Automated reporting pipelines, reducing manual workload and improving accuracy of recurring insights.

Projects

Somnisage – AI Sleep Solution (Deep Learning) — Jan 2024 – Mar 2024

- Designed CNN+LSTM model for EEG-based sleep disorder classification, achieving 93% accuracy on Sleep-EDF dataset.
- Preprocessed polysomnography data with segmentation, normalization, and noise removal for robust model inputs.
- Built hypnogram comparison modules to evaluate predicted vs ground truth sleep stages, with statistical and visual analysis.
- Proposed automated generation of personalized interventions for sleep hygiene improvement and clinical guidance.

Word Predictor using Transformers (NLP) — Jun 2023 – Aug 2023

- Developed BERT/XLNet-based masked word prediction system to provide context-aware completions in Python.
- Implemented dynamic user workflow for real-time predictions, with reusable modules for tokenization and inference.
- Benchmarked against baseline n-gram and RNN models, achieving 15% higher accuracy and robustness in predictions.

IPL Data Dive – Apache Spark Data Engineering — Feb 2024 – Mar 2024

- Built end-to-end data pipeline with Apache Kafka, Spark, Databricks, and AWS for IPL real-time data ingestion and analysis.
- Designed transformations to extract team KPIs, player statistics, and match outcome trends from raw event streams.
- Created Tableau dashboards and integrated predictive models to forecast game results and visualize patterns.

Publications

Skin Disorder Classification – ACOIT 2024 (IEEE) — Apr 2024

- Proposed hybrid CNN-LSTM architecture for vitiligo vs scar classification with 94.48% precision.
- Highlighted diagnostic improvements in dermatology through automated medical image analysis.
- Showed potential of deep learning to assist clinicians in reducing misdiagnosis rates.

Detection, Prevention, and Mitigation of XSS Attacks – ICGCPA 2024 (Springer) — May 2024

- Applied machine learning classifiers to predict cross-site scripting vulnerabilities in web applications.
- Compared traditional rule-based detection with automated learning approaches, demonstrating superior detection accuracy.
- Proposed blended strategies combining manual review with ML-driven automation for stronger cybersecurity.

Technical Skills

- Languages: Python, Java, SQL, C++, HTML, CSS, JavaScript, R
- Frameworks: PyTorch, OpenCV, LangChain, Pygame, SciPy, Dlib, Matplotlib, NumPy, Pandas
- Tools: GitHub, Kafka, Tableau, AWS, IBM Cloud, Oracle Cloud Infrastructure

Certifications

- IBM Artificial Intelligence Analyst — Certificate Link
- Introduction to Computational Thinking and Data Science — Certificate Link
- Oracle Cloud Infrastructure 2023 Foundations Associate (1Z0-1085-23) — Certificate Link