GANESH JAGADEESAN
Lead Data Scientist

To leverage my 19+ years of expertise in machine learning, data mining, and predictive analytics as a Lead Data Scientist, driving innovation and business growth through the development and deployment of advanced data-driven solutions. Committed to delivering actionable insights and optimizing decision-making processes by harnessing the power of big data and cutting-edge technologies. Striving to lead cross-functional teams in the creation of scalable, high-impact machine learning models, ultimately contributing to the achievement of organizational objectives and staying at the forefront of the data science field.

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04 March, 1982

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PROFILE SUMMARY

A seasoned professional adept at leveraging data science to drive transformative initiatives. Demonstrates mastery in developing end-to-end machine learning solutions, from conceptualization to deployment, ensuring optimal performance and accuracy.

Proficient in constructing sophisticated demand forecasting models and causal discovery architectures tailored to industry-specific datasets, enabling informed decision-making and strategic planning. Possesses comprehensive technical expertise in feature engineering, exploratory data analysis, and model building using cutting-edge AI/ML techniques.

Exhibits a deep understanding of business contexts, translating large datasets into actionable insights to address complex challenges and seize opportunities. Skilled in implementing scalable data flow solutions and production-grade code bases, fostering efficiency and scalability.

Collaborative and results-oriented, with a track record of leading global teams and driving successful project outcomes. A visionary leader committed to leveraging data-driven approaches to catalyze positive change and optimize resource utilization in diverse domains.

WORK EXPERIENCE

Enterprise Data Science Specialist
Mastech Digital
10/2024 – present

Lead Data Scientist
Standard Chartered Bank (GBS) Pvt. Ltd.
03/2020 – 08/2024

Achievements/Tasks

- Responsible for managing the entire machine learning model lifecycle, from conceptualization to implementation, testing, and deployment, and is proficient in creating advanced demand forecasting models.
- Optimizing models for various purposes like demand sensing, anomaly detection, historical data correction, outlier detection, pricing modeling, and ensuring interpretability of results, while developing causal models and decision applications using specific industry datasets and use cases.
- Proficient in feature engineering, data analysis, and AI/ML techniques for large datasets. Understanding business context and developing predictive and prescriptive analytics solutions to address challenges and capitalize on opportunities.
- Setting up and maintaining stable, scalable data flow solutions that integrate production systems with end-user applications, ensuring seamless data accessibility, and planning and executing code development and support tasks for Data Science developers.
- Developing a production-grade common code base with a modular architecture, well-designed data abstraction, high configurability, and parameterization for efficient deployment and scalability.
- Implemented a single pipeline solution for multiple markets, enhancing scalability and efficiency, and confirmed project readiness for go-live, ensuring secure operation of AI-driven automation services.

SKILLS

Machine Learning   Data Mining

Predictive Analytics   Statistical Analysis

Natural Language Processing

Deep Learning   Time Series Analysis

Big Data Technologies

Feature Engineering   Data Visualization

Experimentation Design

Model Deployment

Optimization Techniques

Business Acumen   Leadership

Team Management

Cross-functional Collaboration

ACHIEVEMENTS

Led a global team of 12 engineers across three continents, improving system efficiency by 25% with a scalable API for real-time data processing.

Orchestrated feature delivery with global teams, ensuring high-quality code and adherence to timelines through continuous integration and automated testing.

Implemented a demand forecasting model, yielding a 23 FTE benefit and enhancing inventory management.

Developed a Named Entity Recognition system tailored to banking, achieving 97% accuracy in extracting entities from unstructured text data.

Engineered a hierarchical text classification system with 95% accuracy in categorizing documents into multiple levels of granularity.

Optimized data ingestion and processing pipelines, reducing processing time by 80% and enhancing data accuracy.

Designed and implemented RESTful APIs, enabling seamless integration with third-party services and improving platform functionality and user experience.

WORK EXPERIENCE

Sr. Enterprise Computing Specialist
AstraZeneca India Pvt. Ltd.

01/2016 - 03/2020
Achievements/Tasks

- Utilized advanced data visualization techniques to create insightful and easy-to-understand visualizations that support decision-making processes and drive operational efficiency within healthcare organizations.
- Specialized in healthcare analytics, creating interactive dashboards and visualizations to monitor performance indicators, patient populations, and areas for quality improvement.
- Utilized strong analytical skills to analyze complex healthcare datasets, providing actionable insights for clinical decision-making, strategic planning, and quality improvement initiatives, while collaborating effectively with interdisciplinary teams.
- Responsible for advocating for the use of data-driven strategies to tackle healthcare issues, focusing on patient-centered care and improving healthcare outcomes, demonstrating a genuine passion for data-driven change.

PREVIOUS WORK EXPERIENCE

Subject Matter Expert (02/2015 - 01/2016)
IBM India (P) Ltd.

Technical Specialist (05/2012 - 12/2014)
HCL Technologies Ltd.

Technical Services (05/2011 - 05/2012)
IBM India (P) Ltd.

Specialization Senior Infrastructure (08/2010 - 05/2011)
Mphasis Ltd.

Systems Engineer (05/2007 - 08/2010)
Wipro Technologies Ltd.

Sr. Associate IT Engineer (06/2005 - 05/2007)
Lason India Ltd., Chennai

PROJECTS HANDLED

Swift Messages Checker Automation
Details
- **Period:** November 2023 - Current
- **Team Size:** 1
- **Description:** Implements automated validation, correction, and quality assurance of SWIFT message datasets using machine learning and statistical methods.

Bank Securities Message Classification
Details
- **Period:** May 2022 - October 2023
- **Team Size:** 5
- **Description:** Automated intraday service message classification for bank securities. Currently handled manually by a routing team, the project aims to streamline the process through automated assignment to respective departments.

NLP-Based Swift Messages Processing
Details
- **Period:** April 2021 - August 2022
- **Team Size:** 7
- **Benefit:** Replaces manual entry of SWIFT messages by experts, resulting in an 8 FTE benefit. Utilizes NLP techniques to automate entity entry into the internal trading portal.

Invoice Scanning and Text Prediction
Details
- **Period:** June 2020 - March 2021
- **Team Size:** 8
- **Description:** Automates the reconciliation of digital invoices, eliminating manual browsing and data entry. Improves efficiency by predicting and recording invoice details accurately.

CERTIFICATIONS

✦ Advanced certificate program in Generative AI at upGrad (Apr 2024 – Sep 2024)

✦ Post Graduate Program in Artificial Intelligence & Machine Learning at Great Lakes (Jul 2019 – Dec 2020)

✦ Post Graduate Program in Data Engineering at SimpliLearn (Jun 2021 – Dec 2021)

EDUCATION

Pursuing MBA
upGrad School of Management
04/2024 - 07/2025

Diploma in Computer Technologies
Sriram Polytechnic College, Chennai
2003

TECHNICAL SKILLS

Programming Languages & Libraries:
Python, Scala, Scikit-Learn, TensorFlow, Keras, PyTorch, XGBoost, LightGBM, OpenCV, NLTK, SpaCy

Big Data Technologies:
Apache Spark, Hadoop, Kafka, Hive, Pig

Database Management Systems:
MySQL, PostgreSQL

Statistical Analysis & Modeling:
Statistical Modeling (ANOVA), Pipelines, Data Cleaning, Data Transformation

Natural Language Processing (NLP) & Computer Vision:
NLP, LLM, Computer Vision, Generative AI, Lang Chain, RAG

Data Integration & Processing:
Data Integration, MLops, MLflow

Cloud Platforms:
Azure, AWS

Other Skills:
Model Interpretability

LANGUAGES

English
Full Professional Proficiency

Tamil
Full Professional Proficiency