NITHISSHKRISHNA K S

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Professional Summary

Analytical and detail-oriented Data Science graduate student with hands-on experience in data analysis, predictive modeling, and data visualization. Skilled in SQL, Python, R, and advanced data analytics tools, with a strong foundation in machine learning, deep learning, NLP, and statistical modeling. Experienced in building and deploying scalable applications, integrating relational databases, and presenting insights through interactive dashboards. Seeking a data analyst or data scientist role in a growth-focused organization to apply analytical expertise and drive business impact

Education

State University of New York at Buffalo — August 2024 – Present
Master of Science in Data Science — CGPA: 3.75 — Buffalo, New York

Rajalakshmi Engineering College — August 2020 – May 2024
Bachelor of Technology in Artificial Intelligence and Machine Learning — CGPA: 3.75 — Chennai, Tamil Nadu

Experience

International Software Solutions Inc — June 2025 – August 2025
Data Analysis and Web development Intern — Greenbelt, Maryland

- Designed and deployed a school management web application using Django, implementing REST APIs, ORM-based models, and role-based user authentication.
- Enhanced system scalability by integrating relational databases, optimizing queries, and ensuring seamless backend–frontend communication.
- Performed feature engineering and exploratory data analysis (EDA) on large datasets using Python (Pandas, NumPy, Seaborn, Plotly) to uncover actionable insights.
- Built and optimized machine learning models (classification/regression) with Scikit-learn/XGBoost, applying cross-validation, hyperparameter tuning, and performance monitoring.

Vlog Innovations — January 2023 – March 2023
Machine Learning Intern — Chennai, Tamil Nadu

- Gained hands-on experience in developing and optimizing end-to-end machine learning pipelines.
- Collaborated with a team to integrate machine learning models into real-world projects, enhancing model performance.
- Contributed to data analysis, model deployment, and project execution using agile methodologies to improve efficiency.

Projects

Ordinal (Mental Health Awareness WebApp) | *Python, HTML, JavaScript* — May 2023

- Designed and developed a prototype mental health web application with **5+ core features**, including articles, audio, videos, quizzes, and journaling.
- Built and integrated **3 interactive modules** (quizzes, journaling, guided audio) to simulate trauma recovery support and boost engagement in testing scenarios.
- Conducted **10+ rounds of testing** with sample data and scenarios, achieving a **100% pass rate** on all core functionality.

Customer Attrition Prediction | *Python, PySpark, Big Data* — May 2024

- Built a big data–driven web application to analyze **1M+ telecom records**, enabling exploration of customer behavior and attrition patterns.
- Integrated Apache Spark for large-scale data processing and implemented ensemble voting classifiers, **boosting prediction accuracy by 20%**.
- Delivered forecasting insights through visualization and reporting, identifying **3 key drivers of customer churn** to guide retention strategies.

School Management System | *Django, PostgreSQL, Data Analytics, Plotly* **June 2025**

- Designed and deployed a Django-based school management system with role-based authentication for **4+ user types** (students, teachers, parents, administrators).
- Developed a PostgreSQL relational schema with **6+ interconnected entities** (Students, Teachers, Courses, Enrollments, Grades, Attendance) ensuring data integrity via constraints and foreign keys.
- Built **5+ interactive dashboards** using Plotly, Seaborn, and Matplotlib to track academic performance, attendance trends, and student outcomes.
- Automated notifications for grades, attendance alerts, and event updates, and implemented predictive analytics to **forecast student performance with 85% accuracy in testing**.

Extracurricular Activities

- **Volunteer at IAD DAYS 2025, Institute for Artificial Intelligence and Data Science (IAD), University at Buffalo**
  * Supported the organization and execution of the Artificial Intelligence and Data Science Symposium, a prominent event drawing national scholars in AI, Machine Learning, and High Performance Computing.
  * Managed logistics and technology setups for the workshop, ensuring tools and environments were prepared for hands-on learning experiences.
- **National and State Level Rifle Shooter (2017 – 2020)**
  * Represented Tamil Nadu as a member of the Sports Development Authority of Tamil Nadu (SDAT).
  * Competed at the national level, demonstrating precision, focus, and dedication in rifle shooting.
  * Secured Silver Medal at State Championship (2019), demonstrating focus, consistency, and ability to perform under high-pressure environments — skills I bring to data-driven problem-solving..

Publications

Clustering Comparison of Customer Attrition Using Machine Learning Algorithms
International Journal of Innovative Science and Research Technology, Volume 9, Issue 4, April 2024

Certifications

- **Tata Data Visualization: Empowering Business with Effective Insights Job Simulation on Forage (February 2025)**
- Completed a simulation involving creating data visualizations using Tableau, preparing questions for client meetings, and developing visuals to support decision-making.

Technical Skills

- **Languages & Frameworks:** Python, R, SQL, Matlab, Django

- **Tools & Platforms:** Tableau, Git, Docker, Excel, PostgreSQL

- **Data Science & AI Skills:** Statistics, Data Visualization, Deep Learning, Natural Language Processing (NLP), Computer Vision