

NITHYA SHARMA

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PROFESSIONAL EXPERIENCE

[Betamonks Technology Factory Pvt Ltd](#)

Chennai, India

Jr. Data Engineer (On-Site)

Feb 2025 - Present

- Built and deployed **real-time analytics platforms** to process telemetry and operational data, enabling **fleet health, cost, and usage dashboards** that supported executive decision-making.
- Designed and productionized **data ingestion pipelines (FastAPI, SQL, NiFi)** with >99% uptime, ensuring reliable delivery of commercial insights.
- Applied **domain-driven design principles** to architect scalable APIs and workflows, aligning technical solutions with business domains. Collaborated with business and engineering teams in Agile sprints, translating stakeholder requirements into high-impact data products.
- Improved data curation and quality processes, ensuring **accuracy of KPIs** used for operational efficiency and revenue tracking.

Software Engineer Intern

Sep 2024 - Feb 2025

- Contributed to the development of Android and web applications, with a focus on **scalable UI/UX improvements** and cross-platform feature modularity.
- Reduced code redundancy by 35% through **reusable component design**, enhancing maintainability.

[TVS Electronics Limited](#)

Bengaluru, India

Product Solutions Intern

May 2023 - April 2024

- Enhanced **TVSE ePay** (digital payments app), improving UI responsiveness by 20% and reducing transaction failures, supporting **commercial growth in retail payments**.
- Collaborated across 3 live product teams in **Agile (Scrum)** sprints, contributing to 15+ feature design sessions and maintaining product documentation.
- Conducted rigorous QA testing, identifying and resolving 100+ issues that improved app stability and customer satisfaction.

EDUCATION

Integrated MTech. Computer Science and Engineering with

Jul 2019 – Jun 2024

Specialization with Business Analytics

Vellore Institute of Technology

CGPA: 8.11/10.0

SKILLS

Technical: Data Analysis & Engineering, Business Intelligence, Data Warehousing, Machine Learning, LLM Integration

Programming Languages: Python, R, SQL, Java, JavaScript, HTML, Kotlin

Frameworks & Tools: LangChain, React Native, React, Apache Solr, Android Studio, MySQL

Visualization & BI Tools: Looker Studio, Power BI, Tableau, Excel

Other: Analytical Thinking, Problem-Solving, Agile/Scrum Methodologies

PROJECTS

Transaction Fraud Detection, Machine Learning

- Implemented supervised learning algorithms to classify financial transactions as genuine or fraudulent.
- Trained on a dataset containing anonymized customer transactions with class imbalance handling via SMOTE.
- Achieved a precision of 96.4% using Random Forest and 97.1% using XGBoost.
- Deployed confusion matrix and ROC-AUC metrics for evaluation, reducing false positives and minimizing client financial loss.

HR Employee Churn Prediction Analytics, Predictive Analytics

- Built a predictive model to assess employee attrition risks using historical HR data including satisfaction levels, evaluations, and work hours.
- Tested multiple classifiers including Logistic Regression, Decision Trees, and Random Forest.
- Best model yielded 94.7% accuracy and helped identify key churn indicators, enabling targeted retention strategies.

Web Phishing Detection, Classification Models

- Developed a phishing detection engine using a dataset of over 11,000 URLs labeled as legitimate or phishing.
- Extracted 30+ features including URL length, presence of HTTPS, and anchor tag behavior.
- Achieved 98.2% classification accuracy using a Gradient Boosting Classifier. Enabled real-time detection in browser extensions.

CERTIFICATES

- Google Advanced Data Analytics Professional Certificate(2024) - [Google](#)
- BUSINESS ANALYST (2024) - [Finlatics](#)
- Prompt Engineering for ChatGPT (2023) - [Coursera](#)
- Neural Network and Deep Learning(2022) - [DeepLearning.AI](#)
- Google Cloud Fundamentals : Core Infrastructures (2021) - [Google Cloud](#)
- Data Science - Python, Statistics and Predictive model, (2021) - [Intershala](#)

