J NITHIN JOEL

Integrated M.Tech (Data Science), VIT Vellore
Data Science & ML | Full-Stack Developer

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PROFILE SUMMARY

Data Science student with hands-on experience in end-to-end machine learning and full-stack application development. Skilled in **Python, SQL, Streamlit, React, Flutter, Firebase, AWS** and building production-ready dashboards and deployed web apps. Authored **2 technical research papers** on SSRN (Elsevier) focused on applied AI and data-driven analytics.

EDUCATION

•**Vellore Institute of Technology (VIT)**   *2022 – 2027*
Integrated M.Tech in Computer Science & Engineering (Data Science) | CGPA: 8.06 / 10   Vellore, Tamil Nadu

EXPERIENCE

•**Project Experience (Machine Learning & Full-Stack)**   *2024 – Present*
Independent / Academic Projects   Vellore, Tamil Nadu

- Built and deployed data-driven applications using **Python, Streamlit, React, Firebase**, and cloud hosting.
- Owned end-to-end delivery: requirements, implementation, testing, deployment, and documentation.
- Applied ML workflow practices including data preprocessing, feature engineering, training, and evaluation.

PROJECTS

•**SmartShelf Smart Expiry & Inventory Monitoring System**   *2024*
Python, Streamlit   Live Demo

- Designed an expiry and inventory monitoring system with near-expiry alerts; reduced wastage by **20%** in controlled test scenarios.
- Developed Streamlit dashboards to visualize expiring items, stock levels, and actionable insights for users.
- Implemented data validation and preprocessing to improve reliability and user experience.

•**Employee Data Insights Chat-Based Analysis App**   *2024*
Python, Streamlit, Gemini Pro

- Built a chat-based analytics app enabling natural-language queries over structured employee datasets.
- Integrated Gemini Pro to interpret queries and generate insights via a conversational interface.
- Implemented preprocessing and quality checks to ensure consistent analytics outputs.

•**Video Streaming Web Platform (YouTube-like)**   *Jun 2024 – Jul 2024*
React, Firebase (Auth, Database/Storage, Hosting)   Live Demo

- Developed and deployed a full-stack video streaming platform with authentication, content listing, and dynamic loading.
- Improved performance using responsive UI patterns and lazy loading for **100+** video entries.
- Built modular components and Firebase integrations to support scalable feature development.

SKILLS

- **Programming**: Python, SQL, JavaScript, Dart

- **Machine Learning**: Data preprocessing, Feature engineering, Model evaluation; Logistic Regression, SVM, Random Forest; Scikit-learn

- **Libraries**: Pandas, NumPy

- **Web/App**: Streamlit, React, Flutter, Firebase (Auth, Firestore/DB, Hosting)

- **Cloud/Tools**: AWS, Google App Engine, MySQL, Git, Jupyter Notebook

- **Soft Skills**: Problem solving, Ownership, Communication, Teamwork, Adaptability

CERTIFICATIONS

- **Microsoft AI Azure Internship (Edunet + AICTE)** Certificate Link
- **Oracle Cloud Infrastructure (OCI) Generative AI Professional** Certificate Link
- **Google Data Analytics Professional Certificate** Certificate Link