# ASIN RAJA M D

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## SUMMARY

Aspiring Machine Learning and Data Science student with a strong foundation in AI-driven solutions, deep learning, NLP, and computer vision. Passionate about leveraging technology to solve real-world problems and continuously expanding knowledge through hands-on projects. and also, Had experience in research analysis for a startup with financial modeling and strategic recommendations.

## PROJECT EXPERIENCE

**Oil Spill Detection using ML & Satellite Data**
- Developed a deep learning model & created a dataset for Sentinel-1 satellite imagery and AIS data for detecting oil spills.
- Trained a Deep - Learning model for precise segmentation of spill areas.
- Automated reporting system for real-time alerts to environmental authorities.

**Automated Expiry Date Validation System**
- Implemented PaddleOCR and LLaMA & BERT models for real-time text extraction and date validation.
- Integrated with a conveyor belt system for automated quality control in supply chains.
- Achieved high accuracy in detecting and categorizing expired products.

**Real vs. Deepfake Video Detection**
- Developed a deep learning model using CNN and LSTM architectures to detect deepfake videos.
- Utilized transfer learning with EfficientNet for improved classification accuracy.

**Stock Market Chatbot using RAG + Gemini (Ongoing)**
- Developing an AI-powered stock market chatbot using Retrieval-Augmented Generation (RAG) with the Gemini model and LangChain.
- Implementing real-time stock market data analysis and sentiment tracking.
- Integrating a chatbot interface for user-friendly interaction with stock data and market predictions.

**Full Stack - Finance Tracker**
- Built a chit fund management system for tracking customers, payments, and defaulters.
- Designed a portfolio website with modern UI/UX elements and SEO optimization.

## EDUCATION

**B.Tech in Information Technology**                                    **2023 - 2027 (ONGOING)**
Bannari Amman Institute of Technology
- Information Technology (II Year)

## ADDITIONAL INFORMATION

- **Technical Skills:** PyTorch, Scikit-learn, OpenCV, Transformers (BERT), Pandas, NumPy, Matplotlib, SQL, CNNs, YOLO, PaddleOCR, Python, Research & Analysis, Financial Modelling.
- **Professional Skills:** Leadership, Client Acquisition & Management, Critical Thinking.
- **Languages:** English, Tamil.
- **Activities:** Research Paper on Automated Oil Spill Detection Using AIS & SAR Data (Ongoing)