

# PIYALI SAHA

New Delhi, India

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## Education

### St. Xavier's Institution

Higher Secondary (ISC Board) – Percentage: **87.5%**

May 2018 – Apr 2020

Kolkata

### Vellore Institute of Technology

Integrated MTech in CSE with Specialization in Business Analytics – Grade: **9.29**

Coursework: DSA, OS, DBMS, NoSQL, Data Science, ML/DL, Cloud, Analytics

Jun 2020 – Jul 2025

Chennai

## Work Experience

### Business Analyst Intern

Stryker

Jul 2024 – Present

Gurgaon

- Developed a **PowerApps Inventory Management App**, integrating asset tracking and real-time lifecycle management, reducing manual workload by **70%**.
- Led **10+ requirement sessions**, aligned project goals with stakeholders, prepared **10+ URS**, documented **user stories** in ADO, and conducted **3+ UATs**, ensuring **95%+ stakeholder satisfaction**.
- Gained hands-on experience with **Salesforce CPQ**, optimizing pricing and quoting for product configurations, streamlining the sales process and improving efficiency.
- Created interactive **BI dashboards using Tableau** for finance KPIs, enabling teams to spot trends and boost user engagement by **15% monthly**.

### Undergraduate Research Intern

VIT

May 2023 – Aug 2023

Chennai

- Developed a custom **CNN-YOLOv8** model for underwater waste detection with **accuracy of 90%**, optimizing performance for a **20%** faster inference.
- Enabled real-time waste identification**, aiding environmental agencies in **reducing ocean pollution** and improving cleanup efficiency by **25%**.

## Projects

### Similar Template Matching Algorithm and Forgery Detection for Medical Claims / Bajaj Finserv Health

- Implemented ResNet101 feature extraction with **98% feature matching precision** using cosine similarity for efficient template matching.
- Executed an advanced logo matching algorithm, enhancing forgery detection accuracy by **20%**, utilizing computer vision techniques like NMSE, SSIM, and Error Level Analysis.

### Credit Card Insights Dashboard using Power BI / Power BI, SQL, DAX, Power Query, Excel

- Uncovered key **customer spending patterns**, where blue and silver cards drove **93%** of transactions and top states contributed **68%** of revenue.
- Analyzed **revenue growth, transaction trends, and delinquency rates**, driving **10%** improvement in customer acquisition strategies and optimizing risk management decisions.
- Built an **interactive dashboard** with real-time **KPIs**, segmentation, and financial metrics, enhancing strategic insights and boosting stakeholder **decision-making efficiency by 20%**.

## Publications

- Enhancing Chest X-ray Analysis using Encoder-Decoder with GRU for Report Generation. [Link](#)
- A Hybrid Approach for Smart Home Activity Recognition using Sensor Data and Deep Learning Techniques. [Link](#)
- Chapter 11 Indian Legal Documents Corpus for Court Judgment Prediction and Summarization: CJPS. [Link](#)

## Technical Skills

**Languages:** Java, R, SQL, Python

**Machine Learning Algorithms:** Linear Regression, Decision Trees, KNN, SVM, Naive Bayes, K-Means Clustering, PCA.

**Deep Learning and Techniques:** CNN, YOLO, BERT, LSTM, Data Mining, Statistical models

**Computer Vision:** Object Detection, Image Segmentation, Feature Extraction, OpenCV

**Tools and Databases:** Salesforce, MongoDB, MS-Excel, AzureDevOps, PowerApps, PySpark, MongoDB Cassandra.

**Visualization:** Tableau, PowerBI

## Achievements

- Winner of SMART INDIA HACKATHON 2023**
- Meritorious Award - 3rd Rank**
- Career Essentials in Business Analysis by Microsoft and LinkedIn**

Dec 2023

Jun 2020 - Present

Sep 2024