

# Tanisha Priya

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## Education

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### Vellore Institute of Technology

B.Tech in Computer Engineering

### South Point Public School

CBSE 12th Standard

### Don Bosco School

ICSE 10th Standard

Bhopal, Madhya Pradesh

CGPA: 8.77/10 (2022-2026)

Patna, Bihar

(July 2021)

Katihar, Bihar

(May 2019)

## Experience

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### Preprod Corp

#### Data Analyst Intern

(September 2024-Dec 2024)

- Conducted technical research in data science and AI/ML for 3.5 months, performing data analysis, implementing machine learning models, and delivering data-driven solutions.
- Optimized and automated complex data pipelines and ETL workflows, ensuring efficient data retrieval, preprocessing, transformation, and secure management across multiple systems.
- Contributed to a top-performing team in internal evaluations, coordinating scrum tasks, enforcing data security protocols, and enabling seamless project delivery through technical collaboration and agile practices.

## Projects

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### Project Nova | Python, Streamlit, Postgres, Shap.

(September 2025)

- Created a scalable machine learning pipeline integrating PostgreSQL data ingestion, feature engineering, K-Means clustering, and XGBoost regression on 3,000+ records across 14 features, achieving an R<sup>2</sup> score of 0.87.
- Formulated an interactive Streamlit application for real-time credit risk prediction, seamlessly incorporating model explainability with SHAP to enhance transparency, stakeholder trust, and decision-making confidence.
- Executed fairness and bias evaluation using advanced statistical analysis on clustered datasets, implementing mitigation strategies to promote ethical AI and responsible predictive modeling.

### Sakhisangam – Financial Inclusion Website | Rasa, React.js, Python, Flask.

(January 2025-May 2025)

- Developed an intelligent and interactive chatbot using Rasa NLP to deliver real-time financial support, thereby enhancing financial literacy, personalized guidance, and effective expense management.
- Designed robust machine learning models for a personalized budgeting system, resulting in the identification of key actionable insights to effectively address the three biggest causes of budget overspending.
- Built a robust and efficient backend in Node.js with seamless API integration for real-time financial data processing, and reshaped a modern, user-friendly React.js frontend that significantly improved financial tracking, accessibility.

### Breast Cancer Detection | Python, TensorFlow, Scikit-learn, Matplotlib.

(December 2023–January 2024)

- Leveraged advanced machine learning techniques, such as deep learning and neural networks, to contribute to breast cancer research by analyzing histopathological data from the BreakHis400x dataset.
- Employed a state-of-the-art convolutional neural network (CNN) model, incorporating techniques like transfer learning and fine-tuning, to classify breast cancer images with a remarkable 95.47% accuracy rate.
- Formulated and precisely optimized a robust machine learning model using advanced data preprocessing, feature extraction, and hyperparameter tuning, achieving high precision in detecting breast cancer patterns from over 5,000 histopathological images.

## Achievements

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- Achieved a semi-finalist position in Flipkart GRiD 7.0, a national-level competition, earning recognition among the top 10% of participants.
- Semi-Finalist, GrabHack 2025 - Advanced to the national-level semi-final round for developing an innovative tech solution.
- Secured Top 6 in Buildathon 2024 among 35+ teams by utilized analytical skills to deliver impactful projects.

## Extracurricular

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Member of AI club

(December 2023–Ongoing)

## Additional

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**Technical Skills:** C++, Java, Python, HTML, CSS, JavaScript, Machine Learning, AI, SQL, React.

**Languages:** Fluent in Hindi, English, Maithili

**Certifications & Training:** Deloitte Australia Data Analytics Job Simulation on Forage