

# JEEVAN B A

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## EDUCATION

<b>Vellore Institute of Technology, Vellore</b> <i>B.Tech in Computer Science and Engineering</i>	July 2021 - May 2025 CGPA - 8.98
<b>Narayana Olympiad School, Bangalore</b> <i>Higher Secondary School</i>	Jun 2019 - May 2021 Percentage - 87.2%
<b>Narayana Olympiad School, Bangalore</b> <i>Secondary School</i>	Jun 2018 - May 2019 Percentage - 86.6%

## INTERNSHIPS

<b>Rashtriya Ispat Nigam Limited (Vizag Steel Plant)</b> <i>Project Trainee</i>	September 2023 - October 2023 Visakhapatnam
<ul style="list-style-type: none"><li>Developed a lead time prediction model using machine learning to estimate delivery dates for orders in the Tenders &amp; Procurement Division.</li><li>Analyzed 25 years of historical data and implemented a Decision Tree model in Python to improve forecasting accuracy.</li><li>Optimized procurement timelines by identifying key factors influencing lead time, enhancing decision-making efficiency.</li></ul>	
<b>ETHNUS</b> <i>Project Intern</i>	August 2023 - December 2023 Remote
<ul style="list-style-type: none"><li>Developed a full-stack Pet Lost and Found Platform using the MERN stack, streamlining the process of reuniting lost pets with their owners.</li><li>Implemented robust CRUD operations, secure user authentication, and a dynamic, responsive UI using React.js.</li><li>Integrated real-time updates with WebSocket technology and engineered a matching algorithm to efficiently connect lost and found pet records.</li></ul>	

## PROJECTS

<b>Leveraging Lattice-Based Cryptography for Enhanced Security in Blockchain-Enabled CBDCs and Cross Border Payments</b>   <i>Python, Blockchain, Quantum-Resistant Cryptography, Ethereum Sepolia Testnet</i>	
<ul style="list-style-type: none"><li>Implemented lattice-based cryptographic techniques to enhance the security of cross-border payments and Central Bank Digital Currencies (CBDCs).</li><li>Developed a quantum-resistant blockchain framework integrating Learning With Errors (LWE), Ring-LWE, and Fully Homomorphic Encryption (FHE).</li><li>Tested the system on the Ethereum Sepolia Testnet via Infura, ensuring scalability, security, and real-time blockchain transaction validation.</li></ul>	
<b>Integrating GDELT News Sentiment and NSE EOD Data for Stock Price Prediction</b>   <i>Python, Pandas, NumPy, Scikit-Learn, XGBoost, LightGBM, CatBoost, TensorFlow, Keras, Neural Networks</i>	
<ul style="list-style-type: none"><li>Collected and preprocessed stock data from NSE daily reports, applying normalization to adjust for corporate actions such as splits, bonuses and rights, ensuring robust data accuracy.</li><li>Enhanced model inputs by performing sentiment analysis on global news data from GDELT using NLTK, incorporating sentiment scores to reflect market mood influences on stock movements.</li><li>Engineered and trained sophisticated predictive models including Random Forest, gradient boosting with XGBoost and LightGBM, and deep learning algorithms using TensorFlow for neural network architectures.</li><li>Calculated financial returns from the models to assess economic viability and implemented the system for real-time stock price forecasting, providing actionable insights for investors.</li></ul>	
<b>Deep Learning-Based Dementia Detection Using Neuroimaging</b>   <i>Python, TensorFlow, Keras, ResNet50</i>	
<ul style="list-style-type: none"><li>Engineered a deep learning solution using ResNet50, modified for high-accuracy classification of dementia stages from brain MRI scans, leveraging transfer learning to capitalize on pre-trained image recognition capabilities.</li><li>Employed advanced image preprocessing to enhance data uniformity and model training efficacy, significantly boosting diagnostic precision.</li></ul>	

- Achieved robust model performance with rigorous validation techniques, demonstrating potential clinical applications for early and accurate dementia staging.

#### **NSFW (Not safe For Work) Text Monitoring App** | *Python, Flask, Scikit-learn, Pandas, NLTK*

- Developed an AI-powered tool to detect and filter offensive, hate speech, and NSFW text content in real-time.
- Leveraged machine learning models trained on real-world datasets to ensure accurate and efficient content moderation.
- Integrated a REST API and web interface using Flask, facilitating seamless deployment on Render.

#### **Customer Churn Prediction** | *Python, Linear Regression, Decision Trees, Random Forest, Pandas, Scikit-Learn*

- Analyzed telecom customer data to predict churn behavior using machine learning techniques.
- Implemented Logistic Regression, Decision Trees, and Random Forest models, evaluating performance with accuracy, precision, recall, and F1-score.
- Generated insights into customer attrition factors, aiding in targeted retention strategies.

### TECHNICAL SKILLS

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**Programming Languages:** Python, C/C++, Java, SQL, JavaScript, HTML/CSS, R

**Machine Learning Frameworks:** TensorFlow, PyTorch, Keras

**Web Development Frameworks:** Flask, FastAPI

**Libraries:** Pandas, NumPy, Matplotlib, Scikit-Learn, NLTK, TA-Lib, QuantLib