

SAI BODDAPATI

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EDUCATION

Vellore Institute Technology, Chennai <i>B.Tech - Computer Science and Engineering - CGPA - 9.43</i>	2023 – 2027 <i>Chennai, Tamil Nadu</i>
Sainik School Kalikiri <i>Class 10th - 97.4% Class 12th - 96.6%</i>	2014 – 2021 <i>Chittoor, Andhra Pradesh</i>

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, R
Data Science Libraries: Pandas, NumPy, scikit-learn, TensorFlow, Keras, PyTorch, SQL, MATLAB
Machine Learning: Regression, Classification, Clustering, Time Series, Feature Engineering, Model Selection
Deep Learning: Neural Networks, CNNs, LSTMs, Transformers
Generative AI & LangChain: LangChain, LLMs, Prompt Engineering, Chains, Agents, Vector DBs
Natural Language Processing: NLTK, spaCy, BERT, SBERT
Competitive Programming: Data Structures, Algorithms
Relevant Coursework: Operating Systems, Computer Networks, OOPS, DBMS

EXPERIENCE

Samsung PRISM Research Program <i>Research Intern — Spoken LID (Ongoing)</i>	Jul 2025 – Present <i>Remote / India</i>
<ul style="list-style-type: none">Designing replayspoofed multilingual audio and training CNN/Transformer LID baselines.Applying domain adaptation & augmentation to improve robustness under adversarial conditions.	

PROJECTS

Dynamic Pricing Engine for Urban Parking Python, Data Analysis, ML, Visualization	2025
<ul style="list-style-type: none">Built a dynamic pricing model with demand forecasting using 73 days of time-series data for 14 parking lots.Implemented three models: (1) Linear (occupancy-based), (2) Demand-driven (traffic, queue, events), and (3) Competitive (proximity-based using geospatial distance).Applied machine learning to refine demand estimation and optimize price sensitivity to real-time features.Visualized trends using Matplotlib and accelerated computations through vectorized NumPy operations.	
Real-Time Fashion Image Similarity Search Python, ResNet50, FAISS, scikit-learn, Streamlit	2025
<ul style="list-style-type: none">Built a content-based fashion recommender using the Fashion Product Images dataset (44K images).Extracted visual features using a pretrained ResNet50 (ImageNet) model with GlobalMaxPooling2D, generating 2048-dimensional embeddings.Used KNN with Euclidean distance for top-5 fashion image similarity matching.Achieved sub-second similarity search over 40K+ items and deployed a real-time Streamlit app with upload and display functionality.	
AI-Based Early Warning System for Oceanic Dead Zones Python, Machine Learning	2025
<ul style="list-style-type: none">Developed an AI-based early warning system to predict oceanic dead zones using CMEMS oceanographic data.Applied machine learning and deep learning models (Random Forest, Gradient Boosting, MLP) to forecast dissolved oxygen levels and classify hypoxic zones, maintaining an overall accuracy of 83%.Handled dataset imbalance using SMOTE and class weighting to improve model performance on hypoxic zone detection.	

ACHIEVEMENTS & EXTRACURRICULAR

- National Semi-Finalist in **Flipkart GRiD 7.0**, a nationwide competition for early-career talent.
- Secured **4th place** in Bitwars 2.0 organized by Unstop, showcasing strong problem-solving skills.
- Selected among **3000 students nationwide** for the **Amazon ML Summer School 2025**.
- Competitive Programming Lead at **Newton School Coding Club**, VIT Chennai (Aug 2024 – Present).
- Active member of the **VIT Chennai Hockey Team**; represented the university in multiple intercollegiate tournaments.