

Sreenitya Thatikunta

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EDUCATION

Indian Institute of Technology, Jodhpur

B.Tech in Computer Science Engineering (CGPA: 8.87)

2023 - 2027

Jodhpur, Rajasthan

FIITJEE Junior College

Class 12 - Percentage: 98%

2023

Hyderabad, Telangana

ACHIEVEMENTS

ICPC Asia Amritapuri Regionalist, 2025

JPMorgan Chase & Co Code For Good Finalist, 2025

Achieved an **AIR 6040** in JEE Advanced, 2023 and **99.52 percentile** in JEE Mains, 2023

Secured **State Rank 6** in NTSE Stage 1, 2021

EXPERIENCE

JPMorgan Chase & Co.

June 2026 - Jul 2026

Summer Analyst

- Developed **22 production time-series forecasting models** using **Prophet** on **6+ years** of banking transaction data to predict transaction demand for infrastructure capacity planning
- Engineered forecasting pipelines incorporating trend, seasonality, holidays, and demand spikes, achieving **Scatter Index** < 10 across all models
- Delivered **92% forecasting accuracy** during the **Amazon Prime business event**, enabling reliable peak-load forecasting

Pulsegen Tech Pvt Ltd

May 2025 - Jul 2025

Full Stack Developer Intern

- Architected an **AI-powered field management system** spanning frontend, backend APIs, and database design, enabling configurable prompt management and response caching
- Integrated **Mixpanel** with proxy support and **ClickUp** APIs to build analytics infrastructure for reliable event tracking and automated task workflows
- Built a **platform-wide data export pipeline** for application data, improving reporting and data portability across multiple modules

PROJECTS

Manus: Hand Image Generation | 🔄

Feb 2026 – Apr 2026

- Fine-tuned the **PixArt- α diffusion transformer** using **LoRA** (0.3% trainable parameters) on a curated dataset of **3,000+ hand images** with dense LLaVA-generated captions
- Optimized LoRA training through manual and **Optuna-assisted hyperparameter tuning**, reducing **FID** by **13.5%** while preserving general image generation quality
- Benchmarked **4 model variants** using **FID** and **T2I-CompBench**, tracked experiments with **Weights & Biases**, and deployed an interactive **Gradio** demo for qualitative evaluation

Visus: Face Occlusion Segmentation

Feb 2026 – Apr 2026

- Designed a **CLIP-guided cross-modal segmentation model** for text-conditioned facial occlusion localization
- Constructed a **synthetic training pipeline** with partial **CLIP fine-tuning**, prompt augmentation, and **Dice loss** optimization
- Attained **94.4% mIoU** on CelebA and **94.1% mIoU** on LFW, demonstrating strong **cross-dataset generalization**

Terria: Daily Geography Game | 🌐

May 2026

- Built a **Wordle-inspired geography game** with a **3D interactive globe**, implementing deterministic daily challenges across **180+ countries** using seeded hashing, Fisher-Yates shuffling, and geospatial scoring algorithms
- Implemented **Haversine distance** and **great-circle bearing** calculations to provide real-time directional hints and heatmap-based feedback

Atlas: Image Retrieval System | 🔄

Feb 2025 – Apr 2025

- Designed a **content-based image retrieval system** leveraging **ResNet-50** for deep feature extraction on **CIFAR-10**
- Applied **Linear Discriminant Analysis (LDA)** for dimensionality reduction and evaluated classifiers including **Logistic Regression**, **Random Forest**, **K-Means**, and **SVM**
- Delivered **91%+ classification accuracy** and deployed the end-to-end pipeline using **Streamlit**

TECHNICAL SKILLS

Programming Languages: Python, C++, C, SQL, JavaScript, TypeScript, HTML, CSS, Bash/Shell Scripting
AI & Machine Learning: PyTorch, Scikit-Learn, OpenCV, Deep Learning, Transfer Learning, Time Series Models, LLMs, VLMs, Agentic AI
Data Science: NumPy, Pandas, Matplotlib, Plotly, Optuna
Web & Backend: React, Node.js, Express, FastAPI, MongoDB, Supabase, Redis
Cloud & Data Platforms: Databricks, Snowflake
Developer Tools: Git, GitHub, Linux, IntelliJ IDEA, VS Code, Postman, Streamlit, Weights & Biases, LaTeX

LEADERSHIP AND ACTIVITIES

Teaching Assistant: Introduction to Computer Science, IIT Jodhpur
Head: Prometeo 2025 – Technical and Entrepreneurial Fest
Core Team Member: Programming Society, IIT Jodhpur
Core Team Member: Quant Club, IIT Jodhpur
Project Member: RAID (AI Society), IIT Jodhpur

RELEVANT COURSES

Deep Learning (A-)	Computer Vision (A)
Pattern Recognition & Machine Learning (A)	Data Structures and Algorithms
Design and Analysis of Algorithms	Operating Systems
Database Systems (A)	Computer Networks (A-)
Software Engineering	Probability, Statistics & Stochastic Processes (A)
Linear Algebra (A)	Computer Organization and Architecture (A-)
Principles of Programming Languages (A)	Graph Theory and Applications (A-)
Cybersecurity	Introduction to Computer Science (A)
Calculus (A-)	Maths for Computing