

Jallipalli Yaswanth Siva Sai Venkata Rajendra

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EDUCATION

Amrita Vishwa Vidyapeetham

B.Tech in Computer Science and Engineering (CGPA: 8.16/10)

Coimbatore, Tamil Nadu

2023 – 2027

Sri Chaitanya College

State Board (XII) — 97.3%

Andhra Pradesh

2021 – 2023

PROJECTS

Secure Certificate Issuance & Verification System

Python (Flask), RSA-2048, AES Encryption, MFA (TOTP), SQLite

Backend Security / Web Application

GitHub

- Designed and implemented a secure digital certificate infrastructure for issuing, signing, and verifying academic credentials.
- Implemented RSA digital signatures, AES encryption, and TOTP-based multi-factor authentication with salted password hashing.
- Designed role-based access control and generated signed PDF certificates with QR-code verification.

Handwritten Math Symbol Classifier (ResNet)

Python | PyTorch | ResNet-18 | Image Processing

Deep Learning / Computer Vision

GitHub

- Developed a high-accuracy handwritten math OCR system by fine-tuning ResNet-18 on the Kaggle Math Symbols dataset, achieving **96.6% test accuracy** with strong precision/recall (0.97).
- Implemented a complete deep-learning pipeline including preprocessing, augmentation, model training, evaluation metrics, and inference on custom handwritten inputs.
- Built a modular architecture supporting real-time symbol prediction, confusion matrix analysis, and exportable model weights for integration into larger OCR tools.

Intelligent Auto-Completion & Conversational Engine

Trie, Red-Black Tree, Bigram Model, NetworkX

Python, DSA

Live | GitHub

- Developed a real-time search assistant supporting prefix auto-completion and next-word prediction.
- Implemented Trie-based indexing and probabilistic bigram ranking for contextual query suggestions.

TECHNICAL SKILLS

Programming:

Java • C • HTML • CSS • JavaScript • React • Python • SQL

Frameworks:

Node.js • Express.js • MongoDB • Flutter

Tools:

Git • VS Code • Eclipse • REST APIs • Linux

Data and ML:

Pandas • NumPy • Matplotlib • Scikit-Learn

CERTIFICATIONS/ACHIEVEMENTS

- **IBM Full Stack Software Developer — Professional Certificate**
- **Oracle Cloud Infrastructure 2025 — Generative AI Professional**
- **Oracle APEX Cloud Developer — Certified Professional**
- **Adobe Hackathon — Advanced to Round 2**