CHANDRAPATHI MEKALA

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PROFESSIONAL SUMMARY

Computer Science Engineering graduate with experience in Python, Java, and full-stack web development**.** Proficient in data structures, algorithms, and software development fundamentals, with hands-on experience designing, building, and deploying applications using standard development workflows.

TECHNICAL SKILLS

- **Programming Languages** : C | Java | Python
- **Web & Full Stack Technologies** : HTML | CSS | Web Technologies | Full Stack Development
- **Computer Science Fundamentals** : Data Structures and Algorithms (DSA) | Object-Oriented programming |Operating Systems | DBMS
- **Software Development & Methodologies** : Software Engineering | Agile Methodology
- **Cloud & DevOps** : Cloud Computing | DevOps Fundamentals
- **Emerging Technologies** : Internet of Things (IoT) Sensors
- **Soft Skills** **:** Collaboration | Task Prioritization | Clear Communication

PROJECTS

ATM Access Using Card Scanner & Face Recognition (Major Project)

- Architected a multi-factor ATM authentication system combining smart card validation and AI-based facial recognition to prevent unauthorized access.
- Constructed a CNN-based facial verification pipeline using Python and OpenCV, achieving 95%+ authentication accuracy with <2s response time.
- Secured AES-256 encryption to securely store and transmit biometric authentication data.
- Mitigated fraudulent login attempts by 30% through real-time facial mismatch detection and automated access denial.
- Enhanced recognition accuracy by 18% in low-light and partial-occlusion conditions using image enhancement and model tuning techniques.
- Executed 100+ end-to-end test scenarios to validate system stability under real-world ATM usage conditions.
- Designed the system architecture to support scalability and future enterprise-level banking security integration.
- **Technologies:** Python, OpenCV, CNN, Machine Learning, Smart Card Scanner, MySQL, AES Encryption

Academic Integrity Assurance System (Minor Project)

- Implemented an academic integrity platform using Python, NLP, and Machine Learning, achieving 92–97% plagiarism detection accuracy.
- Integrated Turnitin/Plagiarism APIs, similarity-matching algorithms, and rule-based logic, reducing manual review efforts by 70%.
- Optimized NLP pipelines using NLTK, SpaCy, and Scikit-learn, improving text-processing speed by 40% on large datasets.
- Applied OCR (Tesseract) to analyze scanned and handwritten documents, increasing document coverage by 35%.
- Deployed a Flask/Django web dashboard, reducing faculty review and report-generation time by 50%.
- Built a secure backend using MySQL/PostgreSQL, improving query performance and data retrieval efficiency by 30%.
- Deployed the application on AWS/Azure with CI/CD pipelines, ensuring 99% system uptime and scalable deployment.
- Enforced data privacy and access control using RBAC, encryption techniques, and secure data-handling policies, while improving model precision by 25% through feature engineering.
- **Academic Integrity Assurance System**

EDUCATION

Bachelor of Technology in Computer Science Engineering

Holy Mary Institute of Technology and Science, JNTUH, Hyderabad

Aug 2022 – May 2026

CGPA: 8.6

Intermediate (MPC)

Sri Gayatri Junior College, Ranga Reddy, Telangana

Jun 2020 – Mar 2022

CGPA: 8.4

Secondary School Certificate (SSC)

Pagathi Vidya Niketan, Medchal–Malkajgiri, Telangana

Jun 2019 – Mar 2020

CGPA: 9.8

ACHIEVEMENTS & CERTIFICATIONS

- Department Rank 1 – B.Tech (3rd & 6th Semesters); Department Rank 2 – B.Tech (2nd Semester).
- Section Topper in SSC and Intermediate examinations.
- Completed Mathematics, Physics, and Chemistry Olympiad examinations, solving advanced quantitative and logical problems under timed conditions in SSC.
- Java Full Stack Development Certification – Java, Spring Boot, HTML, CSS, JavaScript, Database Integration.
- Python Full Stack Development Certification – Python, Django/Flask, REST APIs, Web Application Development.
- Artificial Intelligence & Machine Learning Certification – supervised learning, model training, and data analysis.
- Cloud Fundamentals Certification – cloud concepts, deployment models, and core cloud services.

LANGUAGE

- English | Hindi | Telugu