NELAKOTI SIVA

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PROFILE SUMMARY

Motivated Software Developer skilled in Java, data structures, algorithms, and full-stack development. Hands-on experience with AI projects and full-stack applications, including skin cancer classification and sentiment analysis systems. Currently enhancing expertise through Java Full Stack training at Pentagon Space and practical projects in Python, web, and database technologies.

EDUCATION

Bachelor of Technology in Electronics and communication Engineering 2021 – 2025
Sree Vidyanikethan Engineering College, Tirupati
CGPA: 7.85

Intermediate 2019 – 2021
Narayana Junior College, Pulivendula
Percentage: 82%

SSC 2018 – 2019
Niveditha Vidyashala High School, Pulivendula
Percentage: 9.8

TECHNICAL SKILLS

Programming Languages: Java, JavaScript,Python, SQL

Core Concepts: Data Structures & Algorithms, Object-Oriented Programming (OOPs)

Frameworks & Libraries: JDBC, Servlets, Maven

Web Technologies: HTML, CSS, Bootstrap

Tools & Platforms: Git, GitHub, Eclipse, Visual Studio Code, Apache Tomcat

INTERNSHIP

Java Full Stack Development (Pentagon Space) Jun 2025 – Present
Currently undergoing training in Java Full Stack Development with a focus on building end-to-end web applications. Hands-on experience in developing RESTful APIs using Java, Spring Boot, and Hibernate. Proficient in creating responsive user interfaces using HTML, CSS, JavaScript, and React. Skilled in MySQL database management, Agile methodologies, version control (Git/GitHub), and debugging full-stack applications.

PROJECTS

SkyTrust Bank – Online Banking Web Application link
Developed a secure banking web application using Java, JSP, Servlets, and JDBC with user registration, login, and session-based authentication. Implemented core banking features such as deposit, withdrawal, balance inquiry, and fund transfer with real-time MySQL updates. Integrated ACID-compliant transaction handling for safe and consistent fund transfers, and built a modular database logic layer for validation and balance management. Designed responsive JSP interfaces for dashboard, profile, transactions, and statements to enhance user experience.

Skin Cancer Classification Using Deep Learning link
Developed a supervised deep-learning model for skin-cancer detection using dermoscopic images from the ISIC dataset. Implemented preprocessing techniques including image resizing, RGB conversion, and normalization to improve model robustness. Applied transfer learning with MobileNet and DenseNet architectures, followed by fine-tuning to achieve high multi-class classification accuracy. Addressed class imbalance using upsampling techniques and class-weighting strategies to improve malignant class recall. Designed and deployed a Django-based web interface to enable image upload and real-time cancer prediction for end users.

COURSES & CERTIFICATIONS

IBM SQL (Coursera) – SQL course by IBM
IBM Python for Data Science (Coursera) – Python for Data Science course by IBM
Basics of Python (Infosys Springboard) – Foundational Python course