A Sriram Chowdary

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Education

•Bachelor of Technology in Computer Science and Engineering(AI AND ML), JNTUH. *2022-26*
Vardhaman College of Engineering, Shamshabad CGPA: 8.85

•Intermediate in MPC, Telangana Board of Intermediate Education (TGBIE). *2020-22*
Sri Chaitaya Jr Kalasala, RK Puram CGPA :9.5

•Tenth Class, Telangana Board of Secondary Education (BSET). *2020*
Sri Chaitanya, L B Nagar CGPA : 10.0

Academic Projects

•Handwritten Digit Recognition using CNN *October–Decem*

Built an end-to-end image classification model using CNN to recognize digits from the MNIST dataset with high accuracy.

- Preprocessed the MNIST dataset using normalization, reshaping, and one-hot encoding for optimal model input.
- Designed and trained a Convolutional Neural Network (CNN) using TensorFlow/Keras, achieving over 98% validation accuracy.
- Implemented dropout, ReLU activation, and max-pooling layers to improve generalization and prevent overfitting.
- Evaluated performance using confusion matrix and accuracy metrics; deployed inference via a Flask REST API.
- Technologies Used: Python, TensorFlow, Keras, Flask, NumPy, Matplotlib.

•Blockchain-based Digital Certificate Verification *October-December 2024*

Implemented blockchain technology to issue digital certificates, ensuring authenticity and immutability.

- Designed and deployed smart contracts using Solidity for real-time issuance and verification of digital certificates.
- Integrated OpenSSL and Decentralized Identity (DID) standards to ensure certificate authenticity and resistance to tampering.
- Utilized IPFS for decentralized file storage and SHA-256 hashing for integrity verification of certificate data.
- Implemented public verification via blockchain explorers and QR code scanning for credential validation.
- Technologies Used: Ethereum, Solidity, IPFS, OpenSSL, DID Protocols, Web3.js, MetaMask.

•Alzheimer's Disease Monitoring Using Microwave Radar

Designed a multimodal deep learning system using radar signal processing and NLP techniques to non-invasively predict Alzheimer's risk.

- Processed FMCW radar signals using Short-Time Fourier Transform (STFT) and PCA to extract spatial–temporal features.
- Implemented a hybrid CNN + BERT model to combine radar-based feature extraction with cognitive text analysis.
- Achieved 89.8% validation accuracy using TensorFlow, with SMOTE for class imbalance handling and cross-validation for generalization.
- Developed a Flask REST API to serve the trained model and integrated real-time inference endpoints.
- Created a user-friendly React + TypeScript frontend with multi-step input forms and real-time risk visualization.
- Technologies Used: Python, TensorFlow, Flask, React, TypeScript, Docker, scikit-learn, BERT, CNN, STFT, PCA, SMOTE.

Internship

•Full Stack Web Development Intern *May - July 2024*
CodeTech, Hyderabad Online

- Developed and deployed scalable full-stack web applications using React.js for dynamic front-end interfaces and Node.js with Express.js for RESTful API development, ensuring seamless integration and performance optimization.
- Designed and implemented RESTful APIs to facilitate seamless data integration between client-side React.js interfaces and backend Node.js/Express.js logic, deployed on AWS infrastructure including EC2, RDS, and Lambda for scalability and high availability.
- Utilized AWS services including EC2, S3, RDS, Lambda, IAM, and VPC for scalable and secure deployment.
- Implemented CI/CD pipelines using GitHub Actions to automate integration, testing, and deployment workflows. Enhanced development speed and reliability across staging and production environments.
- Applied the AWS Well-Architected Framework to enhance system reliability, performance, security, and cost efficiency. Conducted architectural reviews and implemented best practices across cloud-based deployments.
- Technologies Used: React.js, Node.js, Express.js, MongoDB, AWS (EC2, S3, RDS, Lambda, IAM), Git, GitHub, Docker, Postman.

Technical Skills

Languages: C/C++, Python,Java, HTML+CSS
Libraries : C++ STL, Python Libraries
Web Dev Tools: VScode, Git, Github
Frameworks: HTML+CSS
Relevent Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.
Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability

Certifications

– **Programming In Java** NPTEL, February-May 2025.

Certificates

– **Advanced Python Tools** , July 2023.
– **Java Web Technologies** , May 2024.
– **Problem Solving** , August 2024.
– **Introduction to Natural Language Processing** , October 2024.
– **Full Stack Software Development** , November 2024.
– **Natural Language Processing Projects** ,November 2024.
– **Smart Coder** Smart Interviews,November 2024.

Acheivements

– Rated 1188 in coding platform , CodeChef with ID luffydono.
– Rated 1501 in coding platform , leetcode with ID SriramChowdary.
– Acheived 2 badges in coding platform , Hackerrank with ID 22881A6606.

Extracurricular Activities

– Attended a Drone Technology Workshop with hands-on experience in UAV assembly, Arduino-based flight programming, and embedded systems control.
– Volunteered in event planning and operations at Vardhaman College Fest, managing logistics, coordination, and real-time communication.
– Contributed to Smart India Hackathon 2024 as part of a collaborative team solving real-world challenges through full-stack software development.
– Participated in Decathlon Cancer Awareness Run 2024 to support public health initiatives and promote physical and community well-being.