Kushwanth Chandra Medasani

kushwanthchandra1@gmail.com | Vijayawada, AP, IN | P: +91 6303574706 |
Linkedin | GitHub | Leetcode | Google Scholar

EDUCATION

Velagapudi Ramakrishna Siddhartha Engineering College   Vijayawada, AP
Bachelor of Technology   June 2020 – May 2024
Major in Computer Science, CGPA: 8.0

Sri Viswasanthi Educational Institutions   Vuyyuru, AP
PCM (Physics, Mathematics, Chemistry) (CBSE), Marks – 446/500   June 2018 - March 2020

V. S. St. John's Higher Secondary School   Gannavaram, AP
Marks – 364/500   June 2007 - March 2018

WORK EXPERIENCE

DigiFrills   India
Development Team Lead   March 2024 - Present
- As development team lead, coordinating projects including a School app facilitating communication between schools and parents, JobLink for part-time and daily wage job finding, and R&D on automating social media accounts using No Code tools.

Accenture   India
Associate Software Engineer (Offer received, yet to join)
- Selected as an Associate Software Engineer through college placement. Pending joining date.

YuppTV India Pvt Ltd   Hyderabad, India
Data Analyst Intern   June 2023 – July 2023
- Leveraged Python, NumPy, Pandas, and algorithms for Video Analytics data analysis. Demonstrated a strong track record of achieving project objectives and exceeding expectations.

UNIVERSITY PROJECTS

Eye Image-Based Gender Profiling Using CNN and IrisFusionNet   December 2023 – April 2024
- Studies gender classification with facial images using deep learning models ResNet-50, InceptionV3, ZFNet, and NASNetLarge. InceptionV3 and NASNetLarge achieve superior accuracy, inspiring IrisFusionNet, an ensemble model combining strengths. Highlights the critical role of model selection in limited data scenarios, providing valuable insights for researchers and practitioners.

Livestock Health Monitoring System with IoT Integration   October 2023 – November 2023
- Developed a Livestock Health Monitoring System with MAX30105 sensors for real-time heart rate monitoring, GPS modules for location tracking, and temperature sensors for environmental insights. Ensures continuous health monitoring, emergency alerts, and actionable data. Features smart alerts, insights integration, continuous evaluation, and iterative improvements, with robust data security. Technologies include MAX30105 sensors, GPS modules, temperature sensors, ThingSpeak IoT platform, and Wi-Fi communication.

Coconut Tree Detection Using Remote Sensing and Image Processing   January 2023 – November 2023
- Detected coconut trees in South Indian coastal areas using Faster R-CNN and advanced image processing. Utilized Google Earth Engine for high-quality datasets, implemented with Python, ResNet, OpenCV, and CUDA.

SecureChat Pro: Encrypted Messaging Application   June 2023 – July 2023
- Designed "SecureChat Pro," a secure messaging app with SHA-512 encryption for user privacy. Utilized Firebase for cloud storage, showcasing proficiency in developing secure, intuitive applications with a focus on confidentiality.

Hotel Management App   January 2023 – May 2023
- Created a Java-based Hotel Management App with Google Firebase backend using Android Studio. Enables efficient hotel room booking for users and seamless status updates for hotel owners.

Farm To Community Direct Marketing   April 2022 – December 2023
- Developed F2C, an Android shopping app in Java with Google Firebase backend, designed in Android Studio. Facilitates farm product purchases and enables users to add products.

Online Food Ordering App   April 2022 – December 2023
- Developed a Food Ordering App in Java with Google Firebase backend integration in Android Studio. Enables users to place food orders based on preferences and allows sellers to upload food items.

TECHNICAL SKILLS

Programming Languages: Python, Java, C#, C
Databases: SQL
Web Technologies: HTML, CSS, Basics of Java Script
CS Fundamentals: Machine Learning, Data Structures, Software Engineering, Object Oriented Analysis and Design
IDEs: Android Studio, Visual Studio Code, Spyder, Google Collab
Others: Visual Paradigm, Canava
Certifications & Training: Foundations of R Software at NPTEL, Privacy and Security in Online Social Media at NPTEL, PCAP - Programming Essentials in Python at Cisco Networking Academy, Programming Essentials in C at Cisco Networking Academy, Introduction to Cyber Security at Cisco Networking Academy, CCNA: Introduction to Networks at Cisco Networking Academy, Database Foundations in ORACLE Academy

ADDITIONAL

Languages: Fluent in Telugu, English, Hindi.
Awards: Organized institution-level festivals and participated in technical and non-technical inter and intra-college competitions.

PUBLICATIONS

Comparative Analysis of Faster R-CNN Models for Coconut Tree Detection: ResNet-101, MobileNetV2, VGG16
Elsevier SSRN
- This research investigates gender classification using facial images, focusing on feature extraction and deep learning. It highlights the effectiveness of Convolutional Neural Networks (CNNs) in addressing facial expression variations. The study compares ResNet-50, InceptionV3, ZFNet, and NASNetLarge models for gender classification based on eye images, with InceptionV3 and NASNetLarge demonstrating superior accuracy. We combine these models into an ensemble, IrisFusionNet, to enhance gender profiling. The findings emphasize the importance of model selection in data-limited scenarios, offering insights for field practitioners.

Coconut Tree Detection in Coastal Areas with Fast-RCNN Using Resnet-50
Global Conference on Information Technologies and Communications (GCITC)
- Automated coconut tree detection in coastal areas using Fast R-CNN with ResNet50. Through parameter tuning, achieved over 90% detection confidence, surpassing manual methods. This breakthrough optimizes plantation monitoring, promising ecological and economic benefits for tropical regions.

Sustainable Development of Community using Green Marketing
2023 3rd International Conference on Smart Data Intelligence (ICSMDI)
- Implemented Green Marketing principles in agriculture, connecting producers directly with consumers to streamline profit margins from intermediaries. Developed a user-centric Java and XML application with Firebase for transparent payments. Innovated a solution to deliver farm produce like vegetables and grains directly to urban consumers, addressing time constraints and convenience.