CHAKRADHAR REDDY PEDDAVENKATAGARI

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OBJECTIVE

AI/ML Engineer with strong foundations in machine learning, deep learning, cloud computing, and web development. Published researcher with experience in biometric systems, image analysis, and cloud-based applications. Adept at building scalable solutions and driving innovation. Currently seeking opportunities in Data Science, AI Engineering roles.

EXPERIENCE

AI Intern

Excl Solutions Pvt. Ltd. | Bangalore, India (Remote) Jan 2025 – Jun 2025

- Applied machine learning techniques for TEM image analysis and particle detection, improving pipeline accuracy
  and performance.
- Developed an AI-powered internal chatbot to assist teams in accessing project documents and datasets efficiently.
- Received a Letter of Recommendation from the CEO for technical excellence and innovation.

EDUCATION

B.Tech in Computer Science with Specialization in Cloud Computing

SRM University | Chennai, India Jun 2021-May 2025

CGPA: 9.64/10

Higher Secondary Education

Raju Junior College | Andhra Pradesh, India Jun 2019-Mar 2021

MARKS: 855/1000

TECHNICAL SKILLS

- **Programming:** Python, SQL, C++, C
- **Libraries:** TensorFlow, Keras, OpenCV
- **Tools:** Git, Jupyter Notebook, Google Colab
- **Concepts:** Supervised Learning, CNNs, LSTMs, NLP, Model Evaluation
- **Others:** Web Development (HTML/CSS/JS basics), Firebase, AWS Cloud

CERTIFICATIONS

- Google Data Analytics Certificate
- Machine Learning – Stanford (Coursera)
- Scrum Foundation Professional Certification

PROJECTS

Enhancing Biometric Authentication in Cloud Computing: Advanced Encryption, Privacy – Preserving Algorithms, and Data Anonymization Techniques

- Developed a biometric authentication system utilizing AES and RSA encryption, SHA-256 hashing, and blockchain technology to ensure the integrity, privacy, and protection of sensitive data.

Cloud-Based Medical Data Repository for SaaS Healthcare Platform

- Developed a cloud-based healthcare platform enabling real-time ambulance tracking and secure patient data sharing using AES and SHA-256 encryption.

PUBLICATIONS

Neural Sequence-to-Sequence Modeling with Attention by Leveraging Deep Learning Architectures for Enhanced Contextual Understanding in Abstractive Text Summarization

- Developed a neural sequence-to-sequence model with attention for abstractive text summarization. This approach enhances contextual understanding, improving the accuracy of generated summaries.

Show Publication

Efficient CAPTCHA Image Recognition Using Convolutional Neural Networks and Long Short-Term Memory Networks

- Developed a CAPTCHA recognition system using CNNs and LSTMs, achieving 99.54% accuracy. The model efficiently handles complex CAPTCHA images, enhancing security against bots.

Show Publication

Real-time Underwater Garbage Detection with YOLO based Object Detection and Image Segmentation Models

- This research addresses real-time underwater garbage detection using advanced YOLO- based object detection and image segmentation models. The system effectively identifies and classifies underwater debris in challenging environments.

Show Publication

ACHIEVEMENTS

- **Performance Based Scholarships:**
  - ₹50,750 for 2022–2023
  - ₹71,750 for 2023–2024
- **iCAN Summit Scholarship 2024:** Selected for international recognition and served as Treasurer, iCAN Chennai Chapter
- **HackerRank Achievements** — 5 ratings in Python, C, and C++
- **Letter of Recommendation from CEO** — Recognized by Excl Solutions' CEO for innovation, initiative, and technical skill during AI internship