

# CHAKRADHAR REDDY PEDDAVENKATAGARI

+1 (716)292-2583 | pchakradharreddy2004@gmail.com | pchakradhar.com | bit.ly/chakradharlinkedin

## OBJECTIVE

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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

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### 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 by up to 80%.
- 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

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### 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

## SKILLS

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- **Programming:** Python, SQL, C++, C
- **Libraries:** TensorFlow, Keras, OpenCV
- **Tools:** Git, Jupyter Notebook, Google Colab
- **Concepts:** Supervised Learning, Convolutional Neural Network, Long Short-Term Memory, Natural Language Processing, Model Evaluation
- **Others:** Web Development (HTML/CSS/JS basics), Firebase, AWS Cloud

## CERTIFICATIONS

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

## PROJECTS

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

- Improved 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**

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

## PUBLICATIONS

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

- Designed 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**

- Engineered 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](#)

## ACCOMPLISHMENTS

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- **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