CHAKRADHAR REDDY PEDDAVENKATAGARI

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EXPERIENCE

AI Engineer
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

Masters in Computer Science and Engineering (AI/ML Track)
University at Buffalo | Buffalo, USA Aug 2025-Jun 2027

B.Tech in Computer Science with Specialization in Cloud Computing
SRM University | Chennai, India Jun 2021-May 2025
CGPA: 9.64/10

SKILLS

- **Programming:** Python, SQL, C++, C
- **Frameworks :** TensorFlow, Keras, OpenCV
- **Machine Learning and Deep Learning:** LLMs, CNN, LSTM, NLP, Model Evaluation
- **Cloud & Tools:** AWS, Firebase, Git, Jupyter, Google Colab
- **Web Basics:** HTML, CSS and JavaScript

PROJECTS

Biometric Authentication System - Encryption & Privacy

- Improved a biometric authentication system utilizing AES and RSA encryption, SHA-256 hashing, enhancing data security and integrity.
- Integrated blockchain-based validation to ensure the protection of sensitive user information from tampering.

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.
- Implemented AES and SHA-256 Encryption for safe transmission and storage of medical information.

PUBLICATIONS

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.

  View Paper: arxiv.org/abs/2404.08685

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.

  View Paper: ijsrem.com

ACCOMPLISHMENTS

- **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:** 5-star ratings in Python, C, and C++.