CHAKRADHAR REDDY PEDDAVENKATAGARI

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SUMMARY

Master's student in Computer Science with experience building **predictive models, AI-powered systems, and data-driven platforms**. Strong foundation in **Python, SQL, machine learning, and clean architecture**, with hands-on experience evaluating models on real datasets and translating analytical insights into scalable solutions.

EXPERIENCE

AI Engineer Intern   Jan 2025 – Jun 2025

Excl Solutions Pvt. Ltd. *(Remote)*

- Built and evaluated ML pipelines on large-scale TEM image datasets, improving analytical accuracy and throughput by **up to 80%**.
- Developed an internal **AI-powered chatbot** using NLP and semantic retrieval to enable fast access to datasets and documentation.
- Designed modular **Python-based tooling** following clean architecture principles to support scalable experimentation.
- Collaborated via **GitHub workflows** in a distributed engineering environment.
- Received a **Letter of Recommendation from the CEO** for technical ownership and impact.

EDUCATION

Master of Science in Computer Science and Engineering (AI/ML Track)   Aug 2025 – Jun 2027

University at Buffalo, Buffalo, New York   CGPA: 3.92 / 4

Bachelor of Technology in Computer Science with Specialization in Cloud Computing   Jun 2021 – May 2025

SRM University, Chennai, India   CGPA: 9.64 / 10

TECHNICAL SKILLS

- **Languages:** Python, SQL, C++, C, JavaScript
- **AI / ML:** Predictive Modeling, NLP, CNNs, LSTMs, Model Evaluation, Statistical Analysis
- **Data & Tools:** Git, GitHub, Jupyter Notebook, Google Colab
- **Frameworks:** TensorFlow, Keras, OpenCV
- **Cloud & Systems:** AWS, Firebase, API-driven architectures

PROJECTS

CAPTCHA Image Recognition using CNNs and LSTMs

- Designed and trained an end-to-end deep learning pipeline combining CNN feature extraction with LSTM-based sequence modeling, achieving **99.5%+ accuracy**.
- Evaluated model performance using character-level and sequence-level metrics, demonstrating strong predictive modeling and error analysis skills.

Cloud-Based Medical Data Analytics Platform

- Developed a cloud-native system for **real-time data ingestion, tracking, and analytics** to support emergency medical workflows.
- Built a cloud-based healthcare platform enabling real-time ambulance tracking and secure patient data sharing and Implemented AES and SHA-256 Encryption for safe transmission and storage of medical information.

PUBLICATIONS

Neural Sequence-to-Sequence Modeling with Attention for 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

ACCOMPLISHMENTS

- Merit-Based Scholarships totaling ₹1.2L (2022–2024)
- Treasurer, iCAN Summit Scholarship Program — Chennai Chapter
- HackerRank: 5-Star ratings in Python, C, and C++