CHAKRADHAR REDDY PEDDAVENKATAGARI

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📍 Andhra Pradesh　☆ H-index : 3　🔗 Portfolio

EXPERIENCE

AI Engineer

HydroMind　　📅 07/2024 - 11/2024　📍 Chennai, India

- Developed and implemented machine learning algorithms to optimize data processing workflows, contributing to increase in efficiency.
- Spearheaded the development of a predictive analytics model that reduced operational costs by 60%.
- Collaborated with cross-functional teams to integrate AI solutions into existing systems, enhancing overall product performance.
- Led the deployment of an automated data validation system, improving data accuracy by 45% and streamlining quality control processes.

Cohort Program on AI and Machine Learning

Under Pramit Saha Researcher @Oxford University　　📅 03/2024 - 05/2024

- Took part in an enriching research project at the University of Oxford, where I focused on fine-tuning large language models for text generation, guided by researcher Pramit Saha
- Developed a deep understanding of optimizing large language models, applying parameter-efficient techniques to enhance text generation, and contributed to drafting a research paper based on the project's outcomes.

Cohort Program on Competitive Intelligence and Startup Competitiveness Program

Under Atul Banerjee, Lecturer @London Business School　　📅 03/2024 - 05/2024

- Attended an intensive cohort project program focused on Competitive Intelligence for Startups, led by Atul Banerjee, covering market analysis, competitor strategy, and business positioning.
- Gained expertise in analyzing market opportunities, assessing competitor strengths and weaknesses, and developing go-tomarket strategies through hands-on workshops and scenario analysis.

PUBLICATIONS

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

Artificial Intelligence and Machine Learning: The Influence of Machine Learning on Predictive Analytics in Healthcare

Researched the impact of machine learning on predictive analytics in healthcare, improving patient outcomes and reducing costs. Explored applications, challenges, and future prospects for resource optimization through AI and ML technologies.
Show Publication

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 Publlication

Contrast-Induced Nephropathy in the Context of Interventional Cardiology

Explored Contrast-Induced Nephropathy (CIN) in interventional cardiology, focusing on its pathophysiology and key risk factors. Examined prevention strategies, including hydration, controlled diuresis, and emerging treatments.
Show Publication

Artificial Intelligence and Machine Learning: The Influence of Machine Learning on Predictive Analytics in Healthcare

Research on AI and ML's transformative impact in healthcare, focusing on predictive analytics to improve patient outcomes, reduce costs, and optimize resource management. Explored applications, benefits, challenges, and future prospects of ML-driven healthcare technology.
Show Publication

EDUCATION

Bachelor of Technology in CSE with Specialization in Cloud Computing

SRM Institute of Science and Technology

📅 2021 - 2025　📍 Chennai, India

GPA
9.65 / 10

Higher Secondary School - APBIE

Raju Junior College

📅 2019 - 2021　📍 Andhra Pradesh

Marks
855 / 1000

10th Education

Red Cherries School

📅 2019　📍 Andhra Pradesh

GPA
9.7 / 10

TECHNICAL SKILLS

Web Development　Python　SQL

Machine Learning　Deep Learning

Artificial Intelligence　OOPS　Data Analytics

KEY ACHIEVEMENTS

Performance Based Scholarship

Awarded performance-based scholarship of 50,000 INR for outstanding academic achievement in the 4th year.

International Children's Advisory Network (iCAN)

I have been awarded the 2024 Summit Scholarship by iCAN and served as Treasurer for the iCAN Chennai chapter

Hacker Rank

Have 5 stars in coding languages like C, C++, Python

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.

Neural Sequence-to-Sequence Modeling with Attention for Abstractive Text Summarization

- Created a sequence-to-sequence model with attention for improved contextual understanding in abstractive text summarization, enhancing summary accuracy through advanced deep learning techniques.

Efficient CAPTCHA Image Recognition Using CNNs and LSTMs

- Developed a hybrid model using CNNs and LSTMs for CAPTCHA recognition, achieving 99.54% accuracy in handling complex images and enhancing online security against bots.

CERTIFICATIONS

Google Data Analytics Certified Professional

Scrum Foundation Professional Certification - SFPC™

Machine Learning Certification (Stanford University)