PAVAN KUMAR DHARMOJU

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Technical Skills

- **Languages:** Python, SQL, R, Java.
- **Frameworks:** TensorFlow, Keras, Scikit-Learn, PyTorch, FastAI.
- **Specialties:** Deep Learning (CNNs, RNNs, LSTM, GANs), NLP (BERT, GPT), Computer Vision.
- **Tools:** Tableau, OpenRefine, Git, Ant, AWS, Apache Spark (basic).

Education

- **Northwestern University**, Chicago - *M.S. in Artificial Intelligence* Aug 2023 - Dec 2024
- **Indian Institute of Technology Madras** - *Diploma in Data Science* Dec 2021 - May 2023
- **Chaitanya Bharathi Institute of Technology** - *B.E. in Electrical and Electronics* Aug 2017 - May 2021

Relevant Coursework

- Machine Learning, Deep Learning, AI Frameworks, Knowledge Representation & Reasoning, NLP
- Business Process Change Management, Human-Computer Interaction

Experience

- **Deloitte Consulting USI**, Business Technology Analyst Aug 2021 - Aug 2023
  - Led the implementation of AI solutions, resulting in a 15% increase in project efficiency by optimizing workflows.
  - Developed and deployed Python-based automation tools, reducing manual processing errors by 25%, thereby enhancing overall operational accuracy.
  - Conducted SQL query optimization, improving retrieval times by 20%, which facilitated faster data analysis.
  - Fostered collaboration for AI integration, contributing to enhanced technological synergy across business units.
- **Cognifront**, AI Intern Jun 2021 - Dec 2021
  - Improved LSTM model accuracy by 10%, significantly improving reliability for forecasting in project applications.
  - Enhanced product development using TensorFlow & Scikit-Learn, driving advancements in ML capabilities.

Research Publications

- **"Forecasting Electrical Demand for The Residential Sector, Using Deep Learning",** IEEE AIMV, 2021.
- **"Ranking System for All Tourism Related Industries Using NLP Approach",** IEEE ICCCNT, 2022.
- **"Graph Convolutional Networks: Adaptations and Applications",** IJISRT, 2021.

Academic Projects

- **Electrical Load Forecasting Using Deep Learning (LSTM)** [Thesis Project]
  - Engineered LSTM-based model, surpassing state-of-the-art by achieving 94.6% accuracy in load forecasting.
  - Improved forecasting reliability by 30% through advanced time series analysis and feature engineering.
  - Validated model against 5 years of historical data, ensuring robust performance under diverse conditions.
- **Gmail AI Reply Assistant Chrome Extension**
  - Developed a Chrome extension to automate email responses, resulting in a 40% reduction in response time.
  - Achieved direct access to Gmail content via API integration, handling over 1,000 user emails weekly.
  - Implemented OAuth 2.0, securing user data and authentication flows in compliance with Google standards.
- **Restaurant Rating System Using NLP and BERT**
  - Led a project to rank 130 New Delhi hotels, applying NLP to analyze over 10,000 customer reviews.
  - Developed a scoring system using BERT, achieving a 90% accuracy in sentiment analysis over manual ratings.

Leadership Experience

- **President, IEEE CBIT Student Branch** Grew membership by 80, founded two societies, managed operations and events.
- **Under-Secretary-General, CBIT Model United Nations** Managed a team for CBITMUN 2019, overseeing logistics and coordination for 400+ participants.

Certifications

- **Salesforce Certifications:** Tableau CRM and Einstein Discovery Consultant, Admin, PD1, Platform App Builder
- **Deep Learning.ai:** Introduction to TensorFlow for Artificial Intelligence and Deep Learning Certification Pack