Patakokila Praveen Kumar

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Portfolio Website: praveenkumar949.github.io/Portofolio-website/

Skills

- **Languages**: C++, C, Python,
- **Technologies/Tools**: NumPy, Pandas, Matplotlib, scikit-learn, Keras, TensorFlow, PyTorch, RNN, CNN, Docker
- **Developer Tools**: Git/GitHub, Google Colab, Jupyter Notebook, Vs Code
- **Soft Skills**: Team Player, Project Management

Internship

- **Acadomer (Online)** September 2024 - October 2024
  Machine Learning Intern
  - **Skill Development**: Mastered Python and advanced machine learning techniques, completing 50+ hours of focused training on practical ML concepts and real-world applications.
  - **Heart Disease Prediction Project**: Built a machine learning model to predict heart disease, achieving a high 87% accuracy using SVM on a dataset of 1,000+ records. Enhanced model accuracy through feature selection and tuning.
  - **Acquired skills**: Python Programming, Python Libraries, Machine Learning, Object-Oriented Programming (OOPS)

Projects

- **Image Classification using CNN:** November 2024 – December 2024
  Deep learning approach for multi-class image classification using Convolutional Neural Networks (CNNs).
  Achieved 89% test accuracy in multi-class image classification across 8 categories using a CNN model.
  Processed 6,000+ training and 1,000+ testing images with data augmentation techniques (rotation, zoom, shift) to improve model generalization, enhancing overall performance by 6%.
  Tech: scikit-learn, Numpy, Pandas, CNN, Matplotlib

- **POS Tagging and Spellchecking with Hybrid Model**: September 2024 – November 2024
  This project focuses on improving Part-of-Speech (POS) tagging and spellchecking for the Telugu language using a combination of probabilistic models and neural networks.
  Achieved 75.8% POS tagging accuracy by integrating BiLSTM for POS tagging with probabilistic spellchecking, surpassing the standalone BiLSTM model's 71.7%.
  Enhanced F1-score to 0.74, outperforming the CRF model's F1-score of 0.67, demonstrating improved precision and recall.
  Tech: Python Libraries, BILSTM, CRF, Tensor flow, Keras.

- **Personal Porfolio Website**: June 2024 – August 2024
  Developed a responsive personal portfolio website with HTML, CSS, and JavaScript, achieving full mobile compatibility and 100% responsiveness.
  Showcased 5+ personal projects and incorporated interactive animations, enhancing user engagement by 40%.
  Integrated a functional contact form, streamlining communication with site visitors.
  Tech: HTML, CSS, Javascript.

Certificates/Certifications

- Cloud Computing by NPTEL. July 2024 – October 2024
- Complete Interview Preparation - Self-Paced (C++) by GFG. July 2024
- Dynamic Programming, Greedy Algorithms (Coursera) May 2024
- Generative AI with Large Language Models (Coursera) March 2024
- Programming in C++: A Hands-on Introduction (Coursera) February 2024
- Become a Data Scientist (LinkedIn) February 2023

Achievements

- **Research Paper Publication**: December 2024
  NLP Research Paper accepted and published in RTET Conference Proceedings, indexed by Scopus and Crossref.

Education

- **Lovely Professional University** Punjab, India
  Bachelor of Technology - Computer Science and Engineering; ***CGPA: 7.85*** *Since August 2022*
- **Sasi New Gen Junior College** Velivennu, Andhra Pradesh
  Intermediate; ***Percentage: 94%*** *June 2020 - April 2022*
- **Smt Annapurna Vidya Niketan** Velivennu, Andhra Pradesh
  Matriculation; ***Percentage: 93%*** *June 2019 - April 2020*