Karthikeyan P

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SUMMARY

Aspiring Machine Learning Engineer with hands-on experience in developing NLP and AI-powered applications. Skilled in creating deep learning models like LSTM for text classification and pretrained large language models (LLMs) for innovative solutions. Proficient in Python and frameworks like TensorFlow and Hugging Face Transformers. Passionate about building scalable AI solutions that solve real-world problems.

TECHNICAL SKILLS

Programming Languages: Python,Java, SQL, MATLAB

AI Techniques: Prompt engineering, Data analysis, Machine learning

Web Technologies: HTML, CSS, JavaScript

Machine learning: Tensorflow,keras,CNN,LSTM

Libraries and Frameworks: NumPy, Pandas,Seaborn

PROJECTS

Twitter sentiment analysis   Jan 2025
                                                                         NLP, GenAI

Developed a Twitter Sentiment Analysis model to classify tweets as positive, negative, or neutral. Implemented text preprocessing techniques, including stemming, to normalize words and improve model efficiency.

Interactive PDF Chat Application Using Pretrained Language Models   November 2024
deep seek   *JavaScript, Web Speech AP*

Developed an AI-powered PDF Chat Application that enables users to interact with PDF documents through natural language queries. This system leverages pretrained language models to extract, process, and generate responses based on document content, enhancing accessibility and usability.

Fake News Detection Model Using LSTM and Word Embeddings   October 2024
                                                                        AI, Data Analytics

Developed an AI-powered Fake News Detection Model to classify news articles as real or fake using deep learning techniques. The system leverages Long Short-Term Memory (LSTM) networks to analyze textual patterns and improve classification accuracy.

EXPERIENCE

Ui and UX Intern   March 2024
Cognifyz   *Bangalore*

Designed and optimized user interfaces to enhance enterprise software usability. Conducted user research and prototyping, aligning designs with business goals. Collaborated with developers for seamless UI/UX integration in applications.

Machine Learning Intern   June 2024
Building enterprises and training solutions   *Mumbai,India*

Developed and deployed machine learning models for enterprise applications.Ensured scalability and efficiency of AI models for real-world applications.

Volunteer for SIH 2024 - Panel Support   December 2024
Smart India Hackathon   *Chennai, Tamil Nadu*

Assisted in evaluating innovative solutions and guiding participants.

EDUCATION

St. Joseph's Institute of Technology   Chennai, Tamil Nadu
B.Tech in Artificial Intelligence and Data Science - CGPA: 7.5   *November 2022 – May 2026*

CERTIFICATIONS

Data analysis - Infosys
Introduction to MongoDB - MongoDB
IIT Bombay Certification - Java
IIT Bombay Certification - HTML
Deep learning certification-Cousera