Karthikeyan P

+91 7010286020 | karthikeyanvsp2005@gmail.com | linkedin.com/in/Karthikeyan | github.com/Karthikeyan | portfolia/Karthikeyan

SUMMARY

Aspiring Software Developer Machine Learning Engineer with hands-on experience in building scalable and efficient machine learning models. Passionate about software development, designing robust and high-performance applications, and integrating AI-driven solutions into innovative products. Skilled in Python, TensorFlow, and Hugging Face Transformers, with expertise in developing intelligent systems that solve real-world challenges. Committed to leveraging cutting-edge technology to create impactful and scalable solutions.

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL

Machine Learning AI: Supervised Unsupervised Learning, NLP, Data Analysis, Deep Learning

Deep Learning Frameworks: TensorFlow, Keras

Libraries Tools: NumPy, Pandas, scikit-learn, Seaborn

Data Visualization: Seaborn, Matplotlib,

Database Management: MySQL,snowflake

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/UX Intern   March 2024 – Present
Cognifyz   *Bangalore, India*

Designed and optimized user interfaces to enhance enterprise software usability, improving user engagement.

Conducted user research, wireframing, and prototyping to align designs with business goals and user needs.

Collaborated with cross-functional teams, including developers and product managers, for seamless UI/UX integration.

Utilized tools like Figma, Adobe XD, and Sketch to create responsive and accessible design systems.

Machine Learning Intern   June 2024 – Present
Building Enterprises and Training Solutions   *Mumbai, India*

Developed, trained, and deployed machine learning models for enterprise applications, enhancing predictive accuracy.

Optimized model performance by implementing feature engineering, hyperparameter tuning, and GPU acceleration.

Ensured scalability and efficiency of AI models for real-world applications using cloud-based deployment (AWS, GCP).

Worked with large datasets for preprocessing, visualization, and model evaluation using Python, TensorFlow, and Scikit-Learn.

Volunteer – Panel Support   December 2024
Smart India Hackathon (SIH 2024)   *Chennai, Tamil Nadu, India*
Assisted in evaluating innovative solutions, providing guidance and technical feedback to participants.

Facilitated smooth event operations by coordinating with teams and ensuring adherence to competition guidelines.

Engaged in mentorship activities, helping teams refine their problem-solving approaches and presentations.

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

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