Kalaivani Parthipan

1. Personal Introduction

My name is **Kalaivani parthipan** , a motivated and ambitious student currently pursuing my **B.Tech in Artificial Intelligence and Data Science** at the **United Institute of Technology, Coimbatore**. My passion for technology, combined with a strong academic foundation and real-world experience, drives me to solve complex problems using machine learning, deep learning, and natural language processing (NLP).

I am a firm believer in **continuous learning, resilience, and gratitude**. With a clear vision to contribute to groundbreaking technological advancements, I strive to merge creativity and technical expertise to design intelligent systems that positively impact society.

2. Family Background:

- My **father** name is **Mr. Parthipan**, works as a **welder**.

- My **mother** name is **Mrs. Maragatham Parthipan**, is employed in a **mill**.

- I have one sibling ,My **younger brother** name is **Poontamil Selvan** is currently pursuing his **BCA (Bachelor of Computer Applications)** in his second year at **KGISL College**.

3. Educational Journey:

1. **B.Tech, Artificial Intelligence and Data Science** (2021 – Present) Studying in **United Institute of Technology, Coimbatore** ○ **CGPA**: 8.7 (till date)

   ○ Focus Areas: Machine Learning, Deep Learning, Data Science, and Natural Language Processing.

2. **Higher Secondary Certificate (HSC)** (2021)

   ○ completed at **PSGR Krishnammal Higher Secondary School for Girls, Coimbatore**

   ○ **Percentage**: 92.5%

3. **Secondary School Leaving Certificate (SSLC)** (2019) ○ completed at **Periyanayaki Amman Matriculation Higher Secondary School, Coimbatore** ○

Percentage: 93.2%

4. Technical Skills:

1. **Programming Languages**: Python, Java SE 8, C, HTML, CSS

2. **Machine Learning Frameworks**: TensorFlow, PyTorch, scikit-learn

3. **Natural Language Processing**: SpaCy, Google Gemini API

4. **Data Science Libraries**: Pandas, NumPy

5. **Databases**: MySQL, JDBC

6. **Web Technologies**: Flask, Streamlit

7. **Version Control**: Git, GitHub

I continuously explore new technologies and frameworks to stay updated with the latest advancements in the AI and data science fields.

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5. Projects:

1. Movie Recommendation System

- **Objective**: To recommend movies based on user interests using text-based analysis.

- **Technologies Used**: Python, Flask, HTML, CSS, Machine Learning (TfidfVectorizer).

- **Deployment**: Hosted on Render.com.

- **Outcome**: Developed a user-friendly web application that analyzes user preferences and generates relevant movie recommendations.

2. SQL Query Generator

- **Objective**: To bridge the gap between natural language and database queries using AI.

- **Technologies Used**: Python, NLP (Defog SQL Coder – an LLM model).

- **Key Features**: Converts user input in natural language to SQL queries, making database management accessible to non-technical users.

- **Outcome**: Simplified complex SQL query generation through intuitive input mechanisms.

3. Fashion MNIST Classification

- **Objective**: To classify fashion items using a CNN-based deep learning model.

- **Technologies Used**: TensorFlow, Keras, Streamlit.

- **Deployment**: Streamlit-based UI hosted on Render.com.

- **Outcome**: Achieved **90% accuracy** in classifying fashion items while demonstrating the power of deep learning.

4. Chatbot using Google Gemini API

- **Objective**: To develop an interactive chatbot with advanced NLP capabilities.

- **Technologies Used**: Google Gemini API, Python, Streamlit.

- **Features**: Real-time conversations, context-aware responses, and a user-friendly interface.

- **Outcome**: Successfully built a chatbot showcasing the real-world potential of NLP and AIpowered conversational systems.

5. **My twin using RAG based LLM**

    It will answer as I do .i trained this model using my personal data in pdf format and I used Llama-3.2-3B-Instruct-Q8_0.gguf as LLM and sentence-transformers/all-mpnet-base-v2 from hugging face for sentence embeddings**.**

6. **Achievements: Milestones in My Journey**

    - **Youth to Entrepreneur (Y2E)** Award – Awarded by Swadeshi Jagarmanch .

      This is the team project about demand forecasting this idea is team members idea and we worked as a team .my role in this project was to develop the user interface.

      This projects aim is to forecast the demand of the fruits and vegetables priorly by using weather forecasting.

    - **NPTEL Discipline Star(July -December 2024)**– Highlighting my commitment to academic excellence.

    - **Elite Circle Competition** – Secured **third place in drawing**, demonstrating my competitive spirit.

    - **State-Level Karate Tournament** – Won **first prize** in the **Kumite (fighting)** category, showcasing my discipline and physical strength.

These achievements reflect my multifaceted personality, combining technical expertise, creativity, and a drive to excel in various domains.

7. **Internship Experience:**

    - **Machine Learning Intern** at **Techvolt Software Pvt. Ltd., Coimbatore**
      During my internship, I gained practical exposure to building predictive models, preprocessing data, and implementing machine learning algorithms. I worked on real-world datasets, improving my problem-solving and analytical skills. This experience solidified my understanding of AI applications in industry.

8. **Certifications: Strengthening My Knowledge**

    1. **Data Analytics with Python** – NPTEL

    2. **Programming Data Structures and Algorithms in Python** – NPTEL

3. **Big Data Computing** – NPTEL

4. **HTML & CSS** – LinkedIn

5. **Deep Learning** – Pantech University

6. **Problem solving throught programming in c**-NPTEL

7. **Programming in Java**-NPTEL

These certifications validate my proficiency in programming, data science, and AI technologies.

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9. **Extracurricular Activities: Leadership and Creativity**

- **Captain of School Kho-Kho Team** – Successfully led my team to victory in multiple interschool competitions.

- **Event Organizer** – Planned and organized various competitions in college, demonstrating leadership and teamwork.

Hobbies: Drawing and playing chess ○   **Drawing**: A creative outlet to express my thoughts and ideas.

Chess: Enhancing my strategic thinking, focus, and decision-making abilities.

Chess: A strategic game Kalaivani learned from her father at the age of 9. She enjoys playing with him during holidays at home, which enhances her focus and decision-making.

Drawing: Kalaivani finds painting a relaxing and expressive outlet. She frequently shares her artwork on her Instagram page, kalaivani_parthipan.

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10. **Future Aspirations: A Vision for Tomorrow**

I envision myself as a leading **AI Engineer**, contributing to innovative solutions that address critical societal challenges. My short-term goal is to secure a role where I can apply my skills and grow professionally. In the long run, I aim to lead impactful AI projects that revolutionize industries like healthcare, finance, and education.

I aspire to inspire others to believe in their abilities, work hard, and pursue their dreams with determination. I hope to leave a legacy as someone who made meaningful contributions to technology and motivated others to create a better future.

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11. **Personal Values and Motivation**

I believe in:

- **Resilience**: Facing challenges with a positive attitude.

- **Gratitude**: Always being thankful for the opportunities and sacrifices of my family.

- **Lifelong Learning**: Continuously expanding my knowledge to grow personally and professionally.

The sacrifices made by my parents inspire me to work tirelessly to achieve success and make them proud.

Additional information:

My native Coimbatore,Tamil Nadu,India

I am from Coimbatore

My area of interest are Artificial Intelligence and Machine Learning

Contact Information

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Other details:
Date of birth-february 3 2004